VA SALT LAKE CITY HEALTH CARE

500 Foothill Drive Salt Lake City, UT 84148-0002

SOMATOM DEFINITION AS 128



Contents:

Sheet No.	Description
A-101	EQUIPMENT PLAN-LEGEND, DETAILS AND NOTES
A-102	CLEARANCE PLAN-CONTROL RM. ELEV., DETAILS, NOTES
S-101	STRUCTURAL FLOOR PLAN-DETAILS AND NOTES
S-102	STRUCTURAL CEILING PLAN-DETAILS AND LEGEND
E-101	ELECTRICAL PLAN(S)-LEGEND AND NOTES
E-102	ELECTRICAL PLAN-LEGEND AND NOTES
E-501	ELECTRICAL DETAILS, POWER DIAGRAM & REQUIREMENTS
M-101	MECHANICAL PLAN-DETAILS AND NOTES
M-501	MECHANICAL DETAILS AND NOTES

Project Contacts:

Siemens

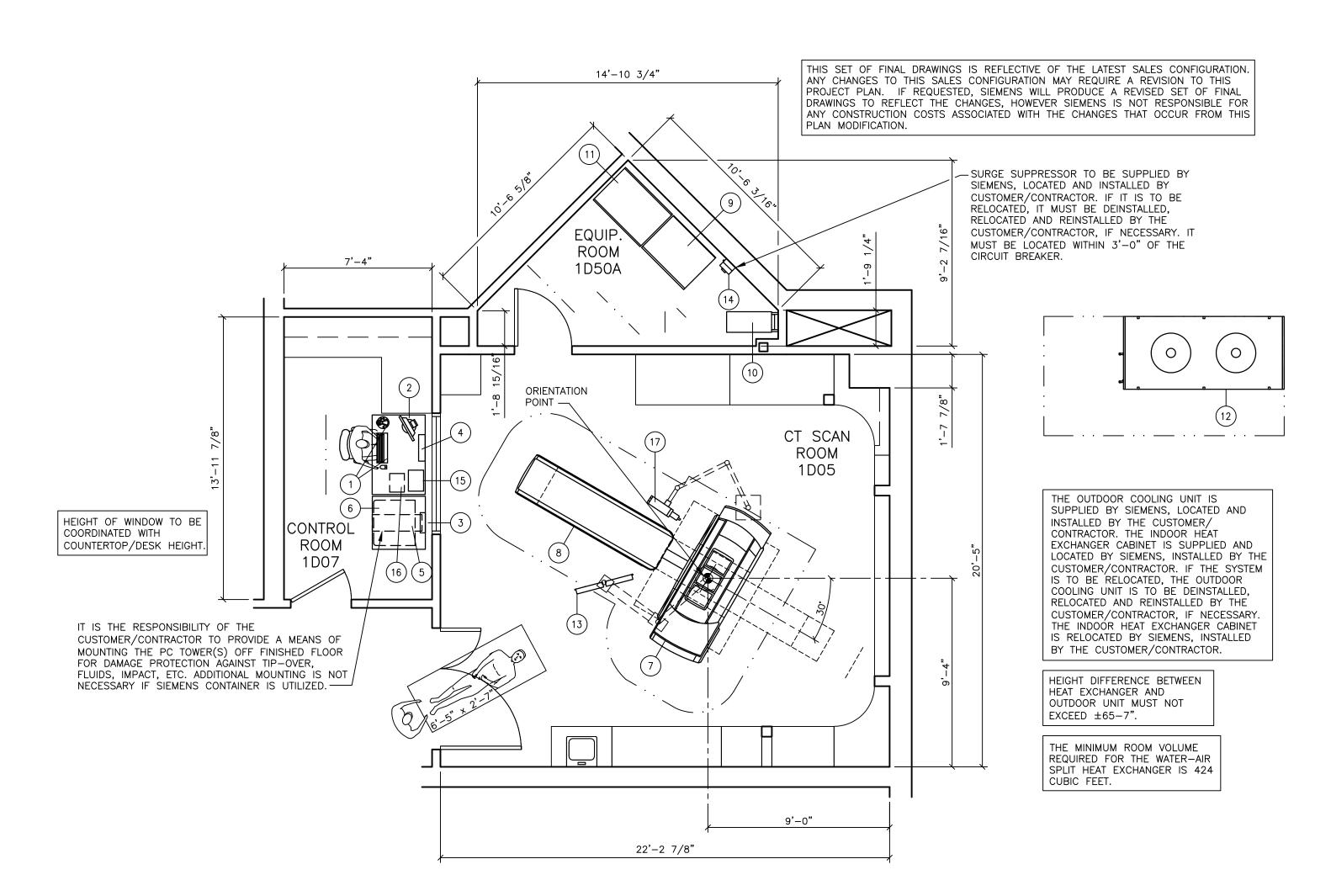
Project Manager
David Lyman
Phone: (801) 602-8711
david.lyman@siemens.com

Planner Joel Dramis

Project #: 1301723

SIEMENS MEDICAL SOLUTIONS

51 Valley Stream Parkway Malvern, PA 19355 www.usa.siemens.com/medical



ARCHITECTURAL EQUIPMENT PLAN

ROOM MEASUREMENTS

ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

CASEWORK & ACCESSORY NOTES

SCALE: 1/4" = 1'-0'

1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.

2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TÓ BE PROVIDED BY THE CUSTOMÉR.

TRANSPORT AND DELIVERY NOTES TOTAL GANTRY TRANSPORT WEIGHT: 5,267 LBS. GANTRY WITHOUT TRANSPORT DEVICE: 4,850 LBS. TRANSPORT DEVICE: 417 LBS. NORMAL TRANSPORT REQUIREMENTS: NARROW SPACE TRANSPORT REQUIREMENTS: DURING THE MOVEMENT OF THE GANTRY THROUGH WHEN TRANSPORTING THE GANTRY THROUGH A NARROW CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT SPACE OR DOORWAY, THE TRANSPORT CASTERS ARE FOR STABILITY AS SHOWN BELOW. THE MAXIMUM WIDTH IS SWIVELED IN AS SHOWN BELOW. THE MAXIMUM WIDTH IS 4'-8 5/8" AND THE MAX. LENGTH IS 8'-5 9/16" WHEN 3'-0 5/8" AND MAXIMUM LENGTH 10'-5 9/16". CASTERS ARE SWIVELED OUT. 3'-0 5/8" 4'-8 5/8"

EQUIPMENT LEGEND								
NO	O DESCRIPTION SMS WEIGHT		WEIGHT	BTU/HR	DIMEN	ISIONS (IN	CHES)	REMARKS
		SYM	(LBS)	TO AIR	W	D	Н	
1	OPERATING CONSOLE W/KEYBOARD AND CONTROL BOX	(-)	154		47 1/4	31 1/2	28 3/8	
2	19" FLAT SCREEN MONITOR ICS	Θ	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER
3	POWER CONNECTION TERMINAL - ICS	(E)			13 9/16	2 15/16	5 11/16	WALL MOUNTED
4	DVI SPLITTER - ICS	(S)			15 3/4	3 15/16	11 13/16	MOUNTED ON THE CONSOLE/CONTAINER
5	SYNGO ACQUISITION WORKPLACE	(CS)	<66	1,706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
6	CONTAINER FOR ICS/IES	(MS)	77		31 1/2	31 1/2	28 3/8	HOUSING FOR ICS/IES
7	SOMATOM DEFINITION AS GANTRY	B	4,850	3,412*	93 11/16	36 5/8	78	*ADDITIONAL HEAT DISSIPATED TO WATER
8	PATIENT TABLE - MULTI PURPOSE TABLE	0	1,124	1,024	29 1/2	95 11/16	33 7/16	
9	POWER DISTRIBUTION CABINET & UPS	®	1,373	6,824	35 7/16	27 1/4	76 3/4	UPS LOCATED INSIDE OF PDC
(<u>e</u>)	IMAGE RECONSTRUCTION SYSTEM	RS	106	5,122	12 1/4	30 3/4	19 5/8	
(=)	HEAT EXCHANGER CABINET - WATER/AIR SPLIT	(G)	904	3,412	39 3/8	27 1/4	77	
12	OUTDOOR UNIT - WATER/AIR SPLIT	(22)	397	102,364	95 1/2	43 1/4	40 3/16	
(13)	CARE VISION DUAL MONITOR	(FI)	157	512				CEILING MOUNTED
14)	EATON SURGE PROTECTIVE DEVICE PANEL	₩	13.5		7 1/2	6 11/16	12	WALL MOUNTED
(15)	MEDRAD DISPLAY CONTROL UNIT	(NI)	8		12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP
16	MEDRAD BASE UNIT	(N2)	14		11	8 3/4	11 1/2	UNDER COUNTER ON SHELF
(17)	CEILING MOUNTED MEDRAD INJECTOR	(N3)	106					SEE MFG SPECIFICATIONS

NOISE LEVEL					
SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)				
GANTRY	<68				
PATIENT TABLE	<60				
PDC CABINET	≤55				
IRSmx2C TOWER (40/64 SLICE CONFIG.)	50 TO 55 (1)				
IRSmx2b TOWER (128 SLICE CONFIG.)	<55				
HEAT EXCHANGER - WATER/AIR SPLIT	<60				
1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.					

ENVIRONMENTAL/POWER AUDIT

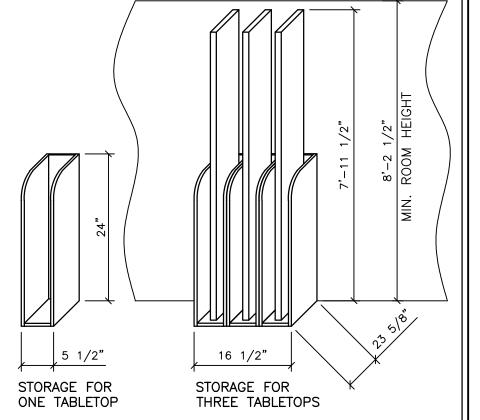
AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

PLANNING REQUIREMENTS

EMERGENCY POWER OFF (EPO) BUTTONS REQUIRED IN CONTROL AREA, EXAMINATION ROOM AND EQUIPMENT AREA.

DOOR (SAFETY) SWITCH REQUIRED ON ALL DOORS ACCESSING THE EXAMINATION ROOM IN ACCORDANCE WITH LOCAL CODES.

PROPOSAL FOR EXCHANGEABLE TABLETOP STORAGE



IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE A STORAGE AREA FOR THE MULTI-PURPOSE EXCHANGEABLE TABLETOPS WHEN NOT IN USE. IT IS RECOMMENDED THAT THEY BE STORED WITHIN THE SCAN ROOM FOR OPTIMIZED WORKFLOW. THIS IS ONE EXAMPLE OF A POSSIBLE STORAGE AREA FOR THE EXCHANGEABLE TABLETOPS. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHAT TYPE OF STORAGE TO PROVIDE AND FOR SPECIFYING, SUPPLYING AND INSTALLING THE STORAGE AREA. THE EXCHANGEABLE TABLETOP DIMENSIONS ARE

21"W X 95 1/2"L WITH A WEIGHT OF 61 LBS.

ARCHITECTURAL NOTES

) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREAFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND SERVICEABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. PIPE CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT MANAGER. SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS. 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES. 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART

ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE 5) ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.

OF SMS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE

5) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND NUMBER OF ANTICIPATED EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND

THE ARCHITECTURAL REPRESENTATIVE.

SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SMS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL

AS AN ADDITIONAL INSTALLATION EXPENSE. 8) THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (IE: O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM

BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER

9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

SITE READINESS GUIDELINES

THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE":

PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION AND ALL POWER OUTLETS FUNCTIONING.

AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS. PROPER LIGHTING INSTALLED AND FUNCTIONING.

PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS

TO SIEMENS EQUIPMENT. ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED,

AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS. ALL REINFORCEMENT PLATES/UNISTRUT INSTALLED AS REQUIRED. ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE

INSTALLATION. 8) A SECURE AREA (APPROXIMATELY 10' x 10') IS AVAILABLE AT

EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS. CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED. 0) CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS)

CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.

) WALLS TO BE PRIMED AND PAINTED, FLOORS TO BE TILED

EXCEPT IN AREAS OF THE EQUIPMENT BASE PLATES.

IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR AND DELIVERY DATES MAY NEED TO BE RESCHEDULED, WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET.

RESOURCE LIST	(SMS USE ONL	(Y.
DESIGNATION	PG NUMBER	DATE
SOMATOM DEFINITION AS	C2-029.891.01.24.02	01.13
COMMON CT	CT00-000.891.04.02.02	03.13

CHECKED:

CT00-000.891.03.19.02

DEFINITION A 05/03/13

FINISHED	ROOM	HEIGHT

MINIMUM 7'-6 9/16" FOR CT GANTRY ONLY CAREVISION MONITOR/CEILING MOUNT | MIN. 8'-7 1/2" MAX. 11'-2 5/8"

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION

MAIL: david.lvman@siemens.com R-101RA VERSION DATED 05/24 **6 |** 06/06/13 APPROVED BY CUSTOMER FOR FI ALL RIGHTS ARE RESERVED. DATE DESCRIPTION SCALE: AS NOTED -ISSUE BLOCK-

VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT PROJECT #: SIEMENS AUTHORIZATION WILL 1301723 RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

REF. #: 30164507

ROJECT MANAGER: DAVID LYMAN (801) 602-8711

COMMON CT OPTIONS

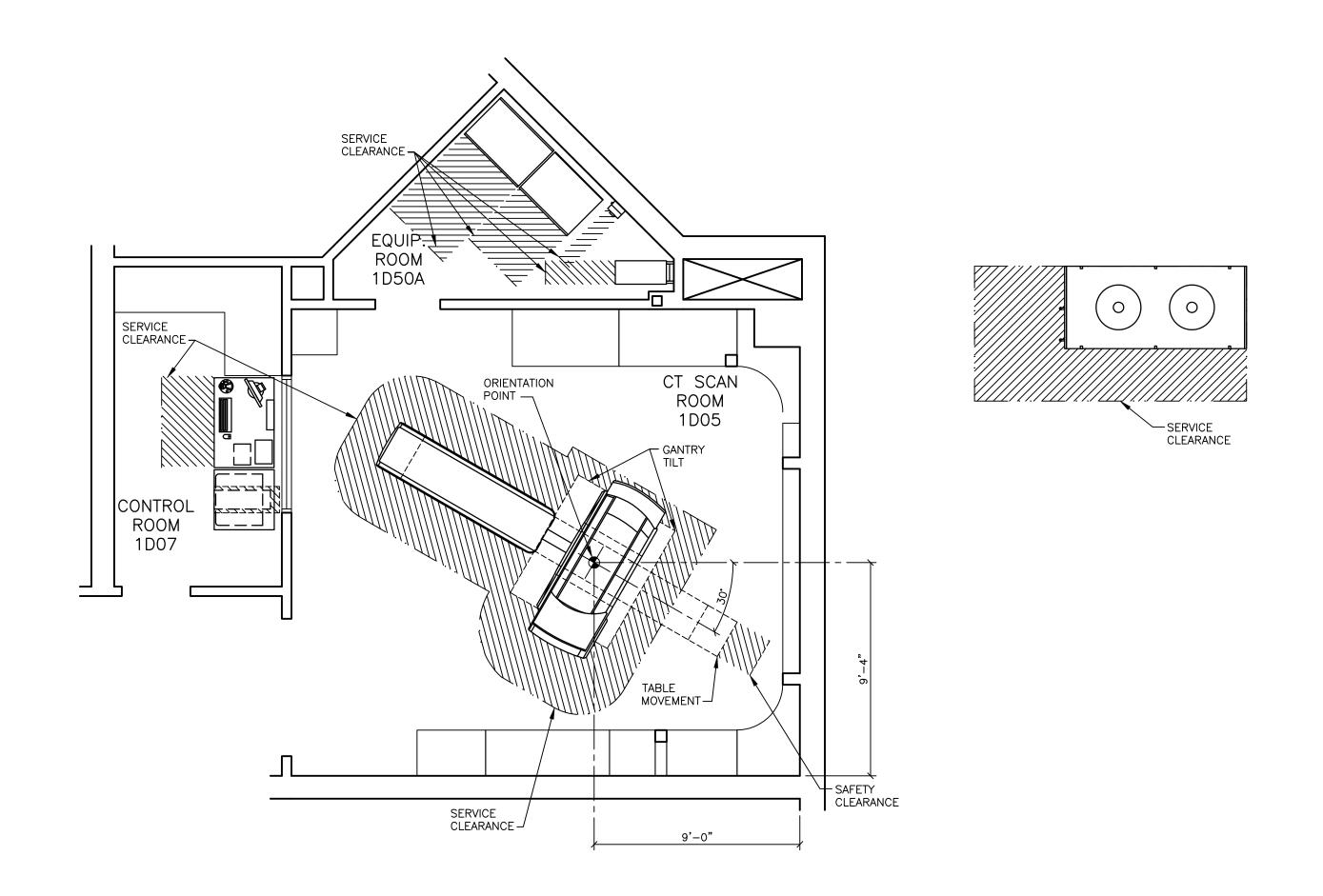
06/06/13

SIEMENS

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

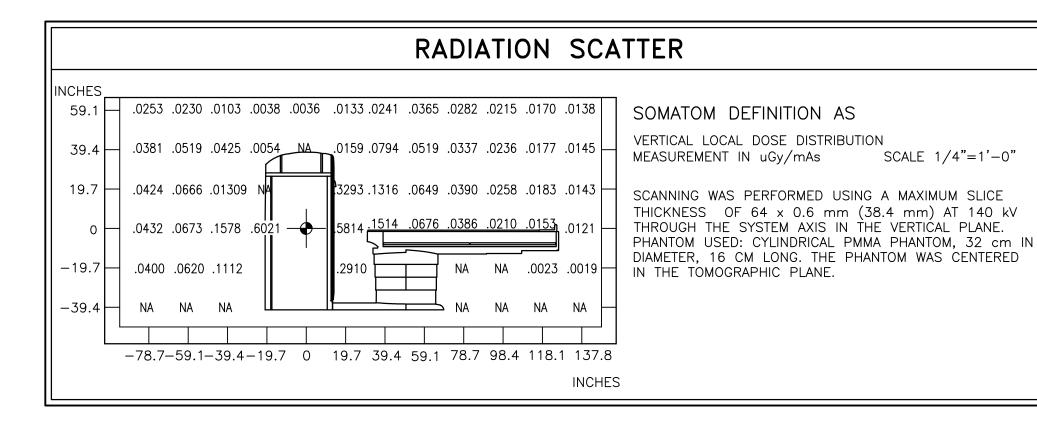
-IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

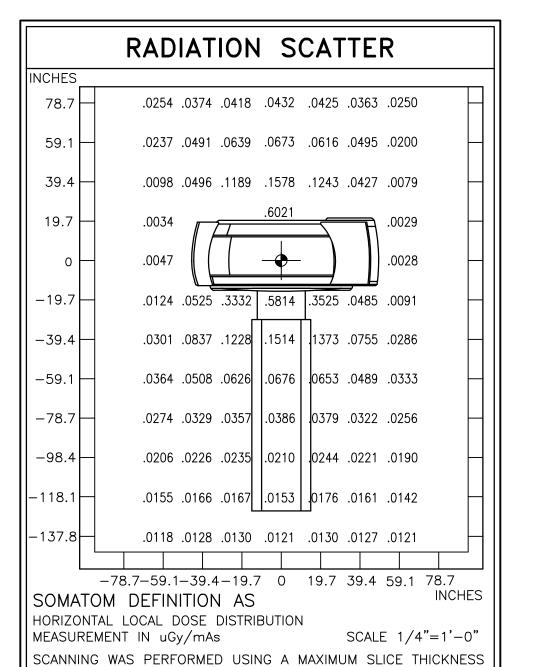
PHYSICIST TO SPECIFY RADIATION PROTECTION.



SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"





SAFETY CLEARANCE NOTE

OF 64 x 0.6 mm (38.4 mm) AT 140 kV THROUGH THE SYSTEM AXIS IN THE HORIZÒNTAL PLÁNE. PHANTOM USED: CYLINDRICAL PMMA PHANTOM, 32 cm IN DIAMETER, 16 CM LONG. THE PHANTOM WAS CENTERED IN THE TOMOGRAPHIC PLANE.

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY

SIEMENS REMOTE SERVICES (SRS)

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

SCALE 1/4"=1'-0"

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

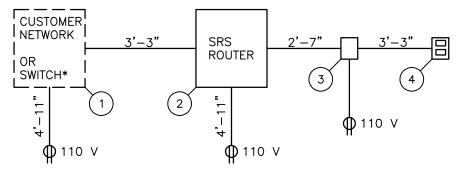
(PREFERRED) VPN CONNECTION

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIÁGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR

(OPTIONAL) SRS ROUTER CONNECTION

- THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS. THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS ROUTER REQUIRED.
- THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.
- THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION (CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED WITH DELIVERY.

SRS ROUTER CONNECTION DIAGRAM



NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.

- (1) ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER
- 2 SRS ROUTER, SUPPLIED BY SIEMENS (SIZE: 11.2"W X 8.7"D X 5.5"H, WEIGHT: 2 LBS.)
- (3) ANALOG MODEM, SUPPLIED BY SIEMENS

CHECKED:

06/06/13

- (4) ANALOG PHONE LINE, SUPPLIED BY CUSTOMER

* OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN BE ORDERED FROM SIEMENS.

SIEMENS REMOTE SERVICE SCALE: NONE

FINISHED ROOM HEIGHT MINIMUM 7'-6 9/16"

FOR CT GANTRY ONLY CAREVISION MONITOR/CEILING MOUNT MIN. 8'-7 1/2" MAX. 11'-2 5/8"

> DATE -ISSUE BLOCK-

DEFINITION AS 05/03/13 PROJECT MANAGER: DAVID LYMAN IEL: (801) 602-8711 **SIEMENS** VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT PROJECT #: SIEMENS AUTHORIZATION WILL 1301723 R-101RA VERSION DATED 05/24 RESULT IN PROSECUTION UNDER <u>0</u> 06/06/13 APPROVED BY CUSTOMER FOR FIN FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. DESCRIPTION

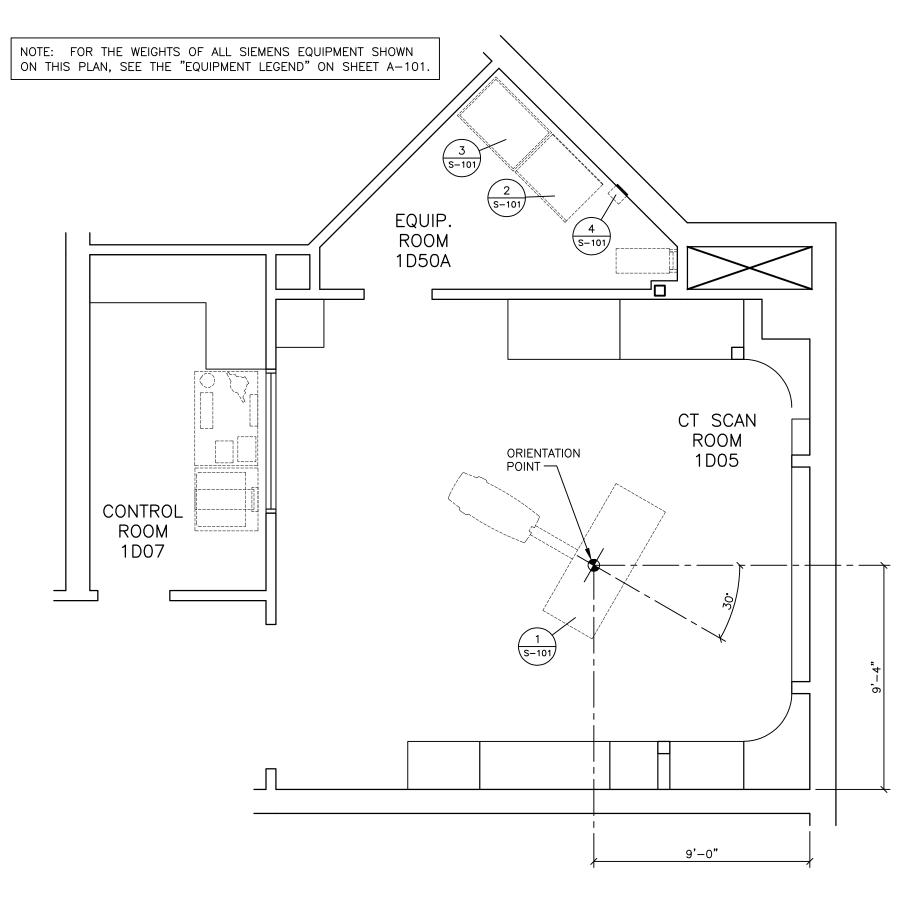
REF. #: 30164507

SCALE: AS NOTED

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED •AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

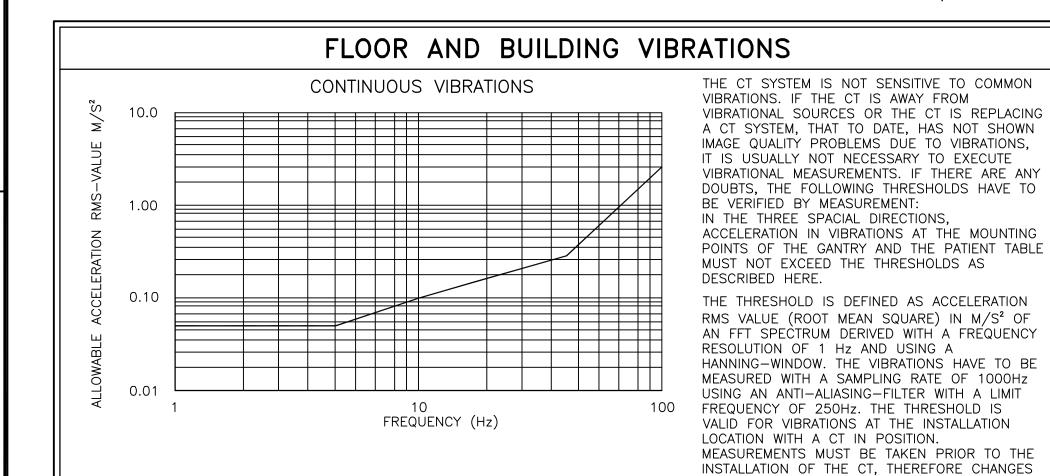
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.



STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0'



THRESHOLD VALUES OF ALLOWABLE ACCELERATION /DMC VALUE OF 1 H- DECOLUTION FET)

(RMS VALUE OF 1	Hz RESOLUTION FFT)
FREQUENCY (Hz)	ACCELERATION RMS (M/S2)
1	0.055
2	0.055
3	0.055
4	0.055
5	0.055
6	0.064
7	0.074
8	0.083
9	0.092
10	0.101
11	0.109
12	0.118
13	0.127
14	0.135
15	0.143
16	0.152

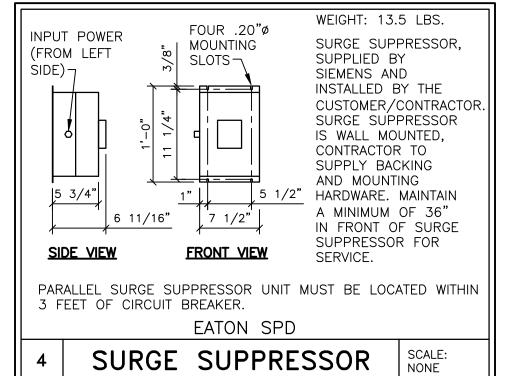
CONSIDERED WHEN COMPARING THE FREQUENCY SPECTRUM WITH THE THRESHOLD. VALUES OF THE THRESHOLD ARE SHOWN BELOW. FREQUENCY (Hz) ACCELERATION RMS (M/S²) 17 0.160 18 0.167 19 0.174 20 0.181 25 0.213 30 0.244 35 0.274 0.302 40

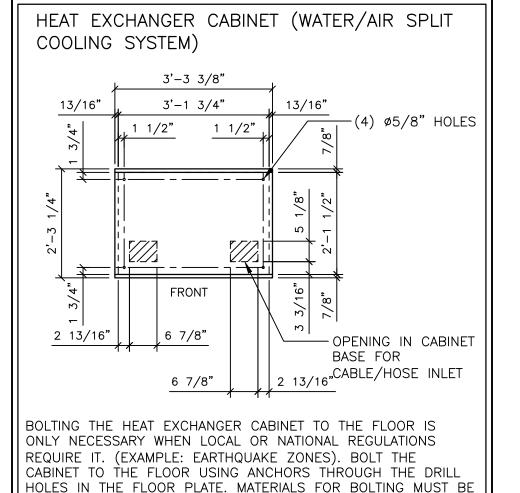
IN THE EIGENFREQUENCY OF THE SLAB CAUSED

BY THE ADDITIONAL MASS OF THE CT MUST BE

45 0.330 50 0.442 55 0.575 60 0.731 80 1.619 100 3.000

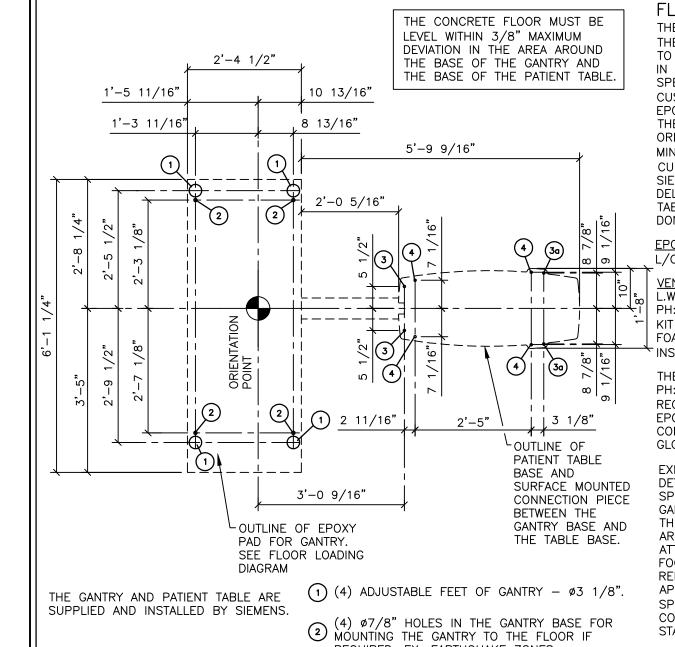
TRANSIENT VIBRATIONS (SHOCKS) ANY TRANSIENT VIBRATION HAS TO BE LESS THAN 0.5 M/S2 PEAK-TO-PEAK IN THE TIME DOMAIN. THE VIBRATIONS HAVE TO BE MEASURED WITH A SAMPLING RATE OF 1000Hz.





HE CABINET BASE

SUPPLIED ON-SITE.



(4) Ø1 3/16" MOUNTING HOLES / ADJUSTABLE FEET TO MOUNT THE PATIENT TABLE TO THE

MAXIMUM POSSIBLE EXTRACTION FORCE AT THESE POINTS IS 2324 POUNDS WITH A 661 POUND PATIENT (INCLUDES SAFETY-FACTOR 4).

REQUIRED, EX. EARTHQUAKE ZONES.

ALTERNATE MOUNTING HOLES, IF ADJUSTABLE FEET/MOUNTING HOLE (#3) LOCATIONS ARE NOT THE PATIENT TABLE MUST ALWAYS BE BOLTED TO THE

FLOOR SURFACE REQUIREMENTS THE GANTRY AND PATIENT TABLE MUST BE INSTALLED ON THE SAME PLANE. IT IS THE CUSTOMER'S RESPONSIBILITY TO MEET FLOOR LEVELNESS SPECIFICATIONS AS OUTLINED IN THIS DETAIL. TO ACHIEVE THE FLOOR LEVELNESS SPECIFICATIONS AT NEW CONSTRUCTION SITES, THE CUSTOMER/CONTRACTOR MUST SUPPLY AND POUR AN EPOXY PAD IN THE FORM OF THE OUTLINE IN THIS DETAIL THE CURING OF THE PAD IS TEMPERATURE SENSITIVE. IN ORDER TO PROPERLY CURE, THE SLAB MUST BE AT A MINIMUM OF 60°F (48 HR. CURE TIME) OR 77°F (24 HR. CURE TIME). THIS SHOULD BE COORDINATED WITH THE SIEMENS PROJECT MANAGER AND COMPLETED PRIOR TO DELIVERY OF THE SYSTEM. THE GANTRY AND PATIENT TABLE RESTS ON ADJUSTABLE FEET AND ANY LEVELING IS DONE WITH THE ADJUSTABLE FEET. EPOXY MATERIAL: MICOROX X-TRA FLUID GROUT, L/O FORMULA, STANDARD GRAY OR EQUIVALENT. L.W. MEYER, INC.

PH: 630-801-0234 KIT NUMBER: 4387911 (KIT INCLUDES: EPOXY, HARDENER, FOAM FORMS, MIXING PADDLE, WAX, GLOVES AND

*INSTALLATION INSTRUCTIONS) THE MICOR COMPANY

PH: 414-873-2071 REQUEST MICOROX X-TRA FLUID GROUT, L/O FORMULA. EPOXY AND HARDENER MAY BE PURCHASED FROM THIS COMPANY. FOAM FORMS, MIXING PADDLE, WAX AND GLOVES MUST BE PURCHASED SEPARATELY.

EXISTING SITES MUST EVALUATE THE CONCRETE FLOOR TO DETERMINE IF THE FLOOR MEETS THE LEVELNESS SPECIFICATIONS. IF THE SPECIFICATIONS ARE MET, THE GANTRY AND PATIENT TABLE MAY BE PLACED DIRECTLY ON THE CONCRETE FLOOR. EXISTING FLOOR COVERING IN THE AREA OF THE INSTALLATION SUPPORT SURFACE AND ATTACHMENT POINTS OF THE GANTRY AND THE ENTIRE FOOTPRINT AREA OF THE PATIENT TABLE BASE MUST BE REMOVED AND REPLACED WITH SHIMS OF THE APPROPRIATE THICKNESS. IF FLOOR LEVELNESS SPECIFICATIONS ARE NOT MET, THE CUSTOMER/ CONTRACTOR MUST SUPPLY AND POUR AN EPOXY PAD AS STATED ABOVE.

BOLTING REQUIREMENTS

THE WEIGHT CAPACITY OF THE FLOOR MUST BE EVALUATED BY A STRUCTURAL ENGINEER. BOLTING THE GANTRY TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT (EXAMPLE: EARTHQUAKE ZONES). BOLT THE GANTRY TO THE FLOOR USING ANCHORS THROUGH THE MOUNTING HOLES IN THE GANTRY BASE. MATERIALS FOR BOLTING MUST BE SUPPLIED

FLOOR THROUGH THE ATTACHMENT POINTS IN THE TABLE PEDESTAL. A DRILLING TEMPLATE AND ALL INSTALLATION MATERIALS ARE INCLUDED IN THE DELIVERY. ANCHOR: HILT HSL-3G M10/60 (USED WITHOUT COMPOSITE FLOORING) OR HSL-3G M10/120 (USED WITH MAX. 2 3/8" COMPOSITE FLOORING) ARE SUPPLIED WITH THE TABLE. THE CONCRETE MUST BE MIN. 5 1/2" THICK.

IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER TO DETERMINE THE ANCHORING DEPTH AND CONCRETE STRENGTH NEEDED TO INSTALL THE TABLE BASE WITH THE SIEMENS SUPPLIED ANCHORS OR EQUIVALENT ANCHORS SPECIFIED BY THE STRUCTURAL ENGINEER AND SUPPLIED BY THE CUSTOMER/CONTRACTOR.

GANTRY AND PATIENT TABLE MOUNTING DETAIL

POWER DISTRIBUTION CABINET 2'-3 9/16" . 3 15/16" —(4) Ø9/16" HOLES FRONT -OPENING IN CABINET BASE FOR CABLE INLET 2'-7 1/16"

BOLTING THE POWER DISTRIBUTION CABINET TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT. (EXAMPLE: EARTHQUAKE ZONES). BOLT THE CABINET TO THE FLOOR USING ANCHORS THROUGH THE DRILL HOLES IN THE FLOOR PLATE. MATERIALS FOR BOLTING MUST BE SUPPLIED ON-SITE.

PDC CABINET BASE

STRUCTURAL NOTES

THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.

2) THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.

3) ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LÉVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.

4) ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.

WHERE SHOWN ON THE 1/4" STRUCTURAL FLOOR PLAN, THERE ARE ON OCCASION MOUNTING FRAMES FURNISHED BY SMS. THESE FRAMES ARE TO BE SET BY THE CONTRACTOR, UNDER THE SUPER-VISION OF SMS PERSONNEL. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ALL FRAMES INSTALLED BY HIM TO BE WATER LEVEL AND ANCHORED PROPERLY.

6) ALL CEILING FIXTURES (i.e. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.

) THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CÉILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.

B) THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUC-TÚRAL PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.

) THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FÓR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUC-TURES IN ACCORDANCE WITH THE WEIGHTS. MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

FLOOR LOADING DESCRIPTION STAT STATIC FLOOR LOADING DUE TO GANTRY'S OWN AMPLITUDE DIFFERENCE BETWEEN MINIMUM AND MAXIMUM FLOOR LOADING DURING GANTRY ROTATION MEASUREMENT POINTS ADJUSTABLE AMPLITUDE | BEARING AREA F STAT FOR F DYN PER ADJUSTABLE MAX FOOT (POUNDS) (POUNDS) 1034 ±135 1540 ±112 7 3/4 IN 1248 ±112 1034 ±135

1) THE VALUES PROVIDED FOR FLOOR LOADING APPLY ONLY IF THE GANTRY IS SATISFACTORILY LEVELED.

2) THE FLOOR STRUCTURE MUST BE CAPABLE OF WITHSTANDING THE OCCUPIED WEIGHT OF THE GANTRY AND THE INDIVIDUAL CONTACT AREA LOADING.

FINISHED ROOM HEIGHT FOR CT GANTRY ONLY

MINIMUM 7'-6 9/16" CAREVISION MONITOR/CEILING MOUNT | MIN. 8'-7 1/2" MAX. 11'-2 5/8"

R-101RA VERSION DATED 05/24, **6**0 06/06/13 APPROVED BY CUSTOMER FOR FIN DATE DESCRIPTION SCALE: AS NOTED -ISSUE BLOCK-

(801) 602-8711 MAIL: david.lvman@siemens.com VA SALT LAKE CITY HEALTH CARE SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER

ROJECT MANAGER: DAVID LYMAN

1/2"=1'-0"

SIEMENS

DEFINITION AS 05/03/13

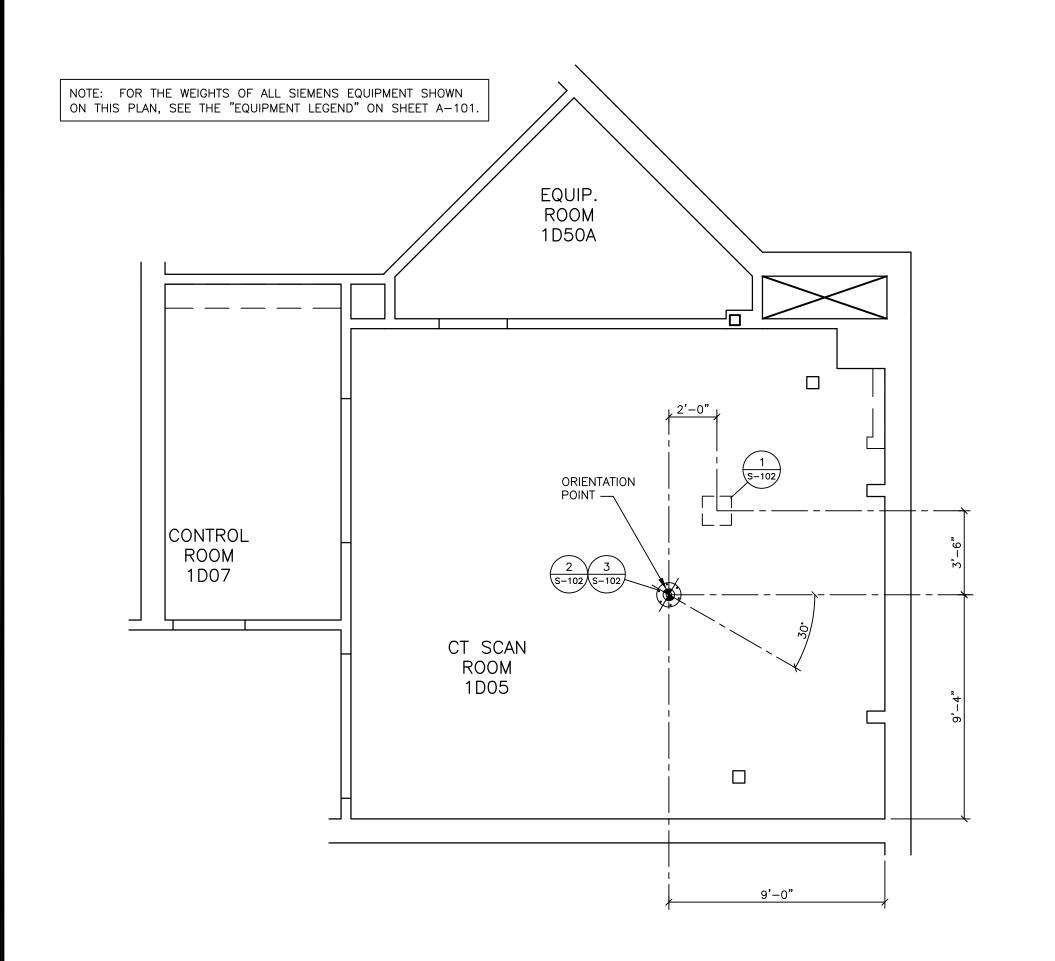
THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED ◆AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

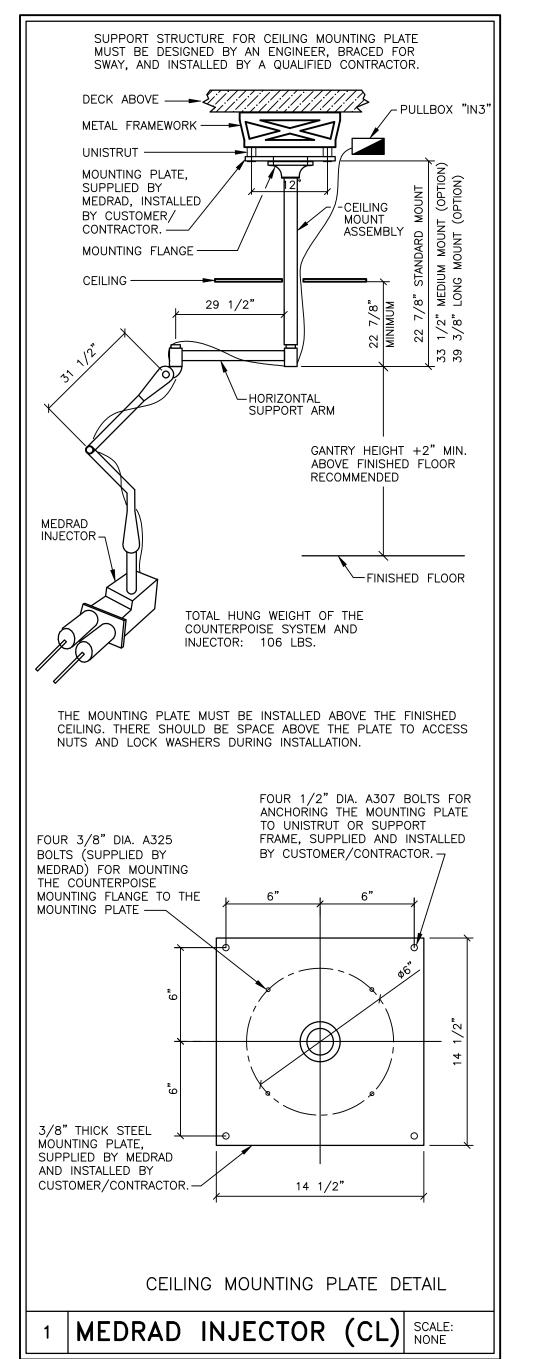
- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

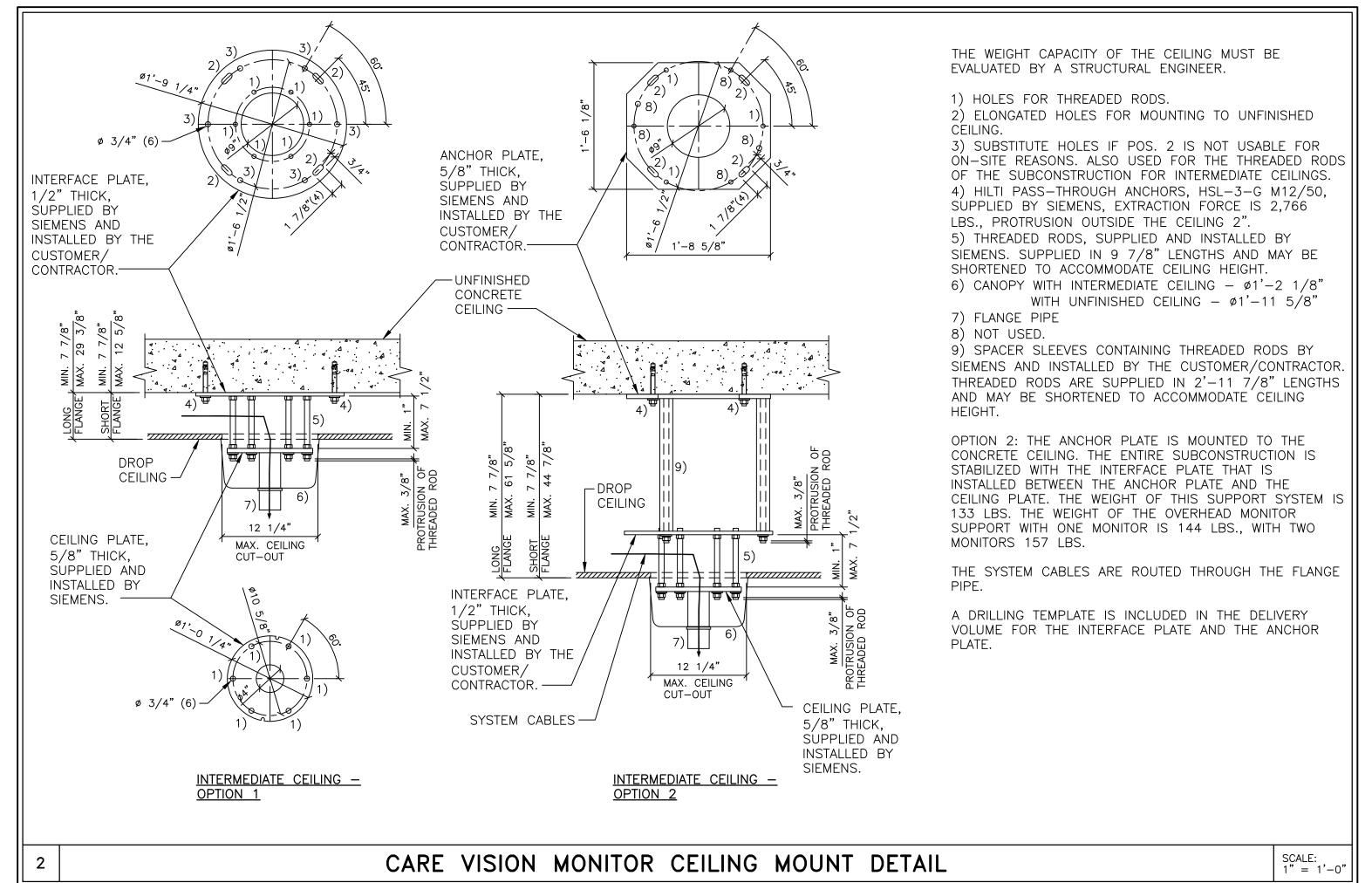
500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT PROJECT #: 1301723 FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. J. DRAMIS REF. #: 30164507 CHECKED: 06/06/13

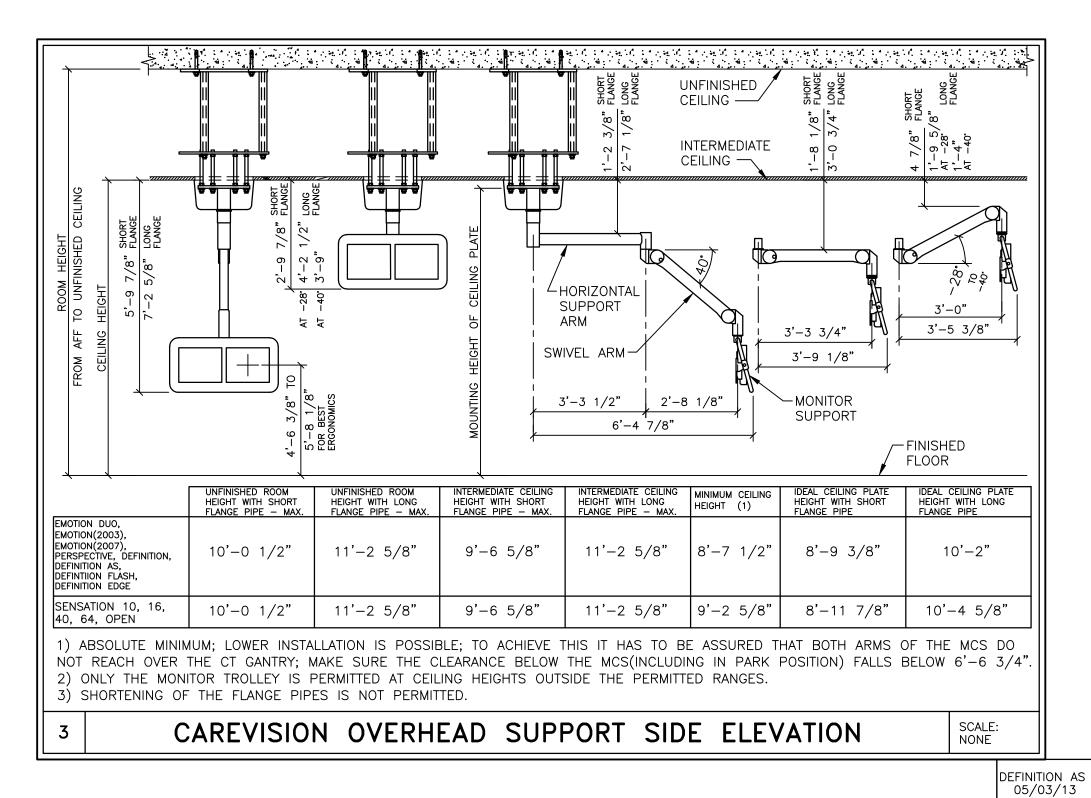


STRUCTURAL CEILING PLAN

SCALE: 1/4" = 1'-0"







FINISHED ROOM HEIGHT FOR CT GANTRY ONLY MINIMUM 7'-6 9/16" CAREVISION MONITOR/CEILING MOUNT | MIN. 8'-7 1/2" MAX. 11'-2 5/8"

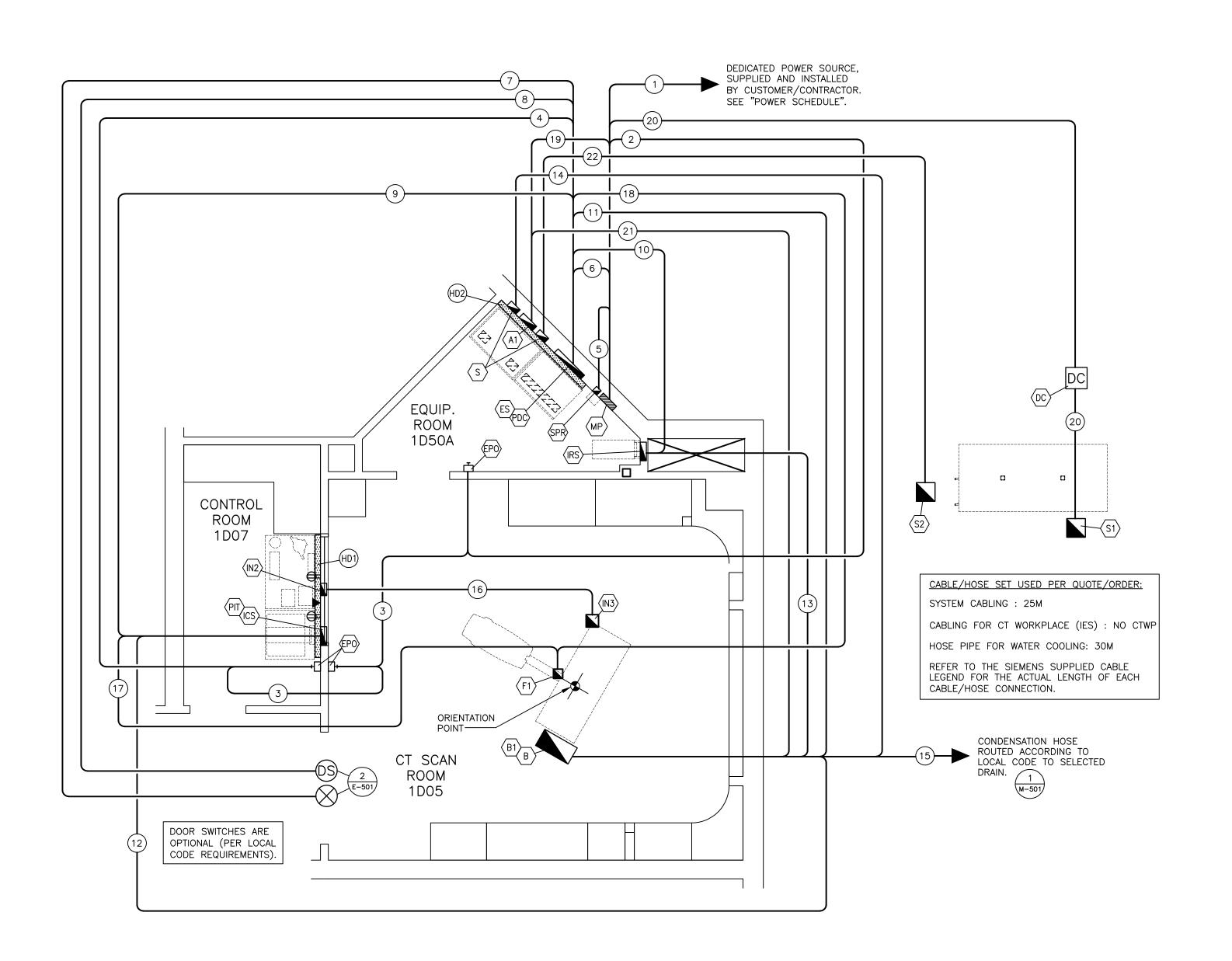
PROJECT MANAGER: DAVID LYMAN [EL: (801) 602-8711 SIEMENS MAIL: david.lvman@siemens.com VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT PROJECT #: SIEMENS AUTHORIZATION WILL 1301723 R-101RA VERSION DATED 05/24, RESULT IN PROSECUTION UNDER APPROVED BY CUSTOMER FOR FIN FULL EXTENT OF THE LAW. ALL RIGHTS ARE RESERVED. DATE DESCRIPTION J. DRAMIS SCALE: AS NOTED CHECKED: -ISSUE BLOCK-06/06/13

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION



ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

SYMBOLS					
ALL MAY NOT APPLY					
	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR				
OPENING IN RACEWAY OR TRENCHDUCT					
PULLBOX IN (FLOOR/WALL/CEILING)					
	OPENING IN ACCESS FLOORING				
\otimes	WARNING LIGHT (X-RAY ON)				
DS DOOR SAFETY SWITCH					
(EPO) EMERGENCY POWER OFF BUTTON					
TRENCHDUCT					
EEIDIE CEILING DUCT					
[UNDER FLOOR DUCT					
	SURFACE DUCT				
\boxtimes	VERTICAL DUCT				
>	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).				
+	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.				

CONTRACTOR SUPPLIED CABLES				
FROM	VIA	то	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND, ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EP0	3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	4	PDC	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5	SPR	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	6	PDC	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE, MAX. 3/0. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDC	7	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
PDC	8	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
MP	19 , A1	S	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	W/A SPLIT COOLING SYSTEM SEE POWER SCHEDULE

POWER QUALITY

POOR POWER WILL ALTER EQUIPMENT PERFORMANCE

IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.

SYM	SIZE	DESCRIPTION	REMARKS
الاا ا ت	SIZE	SUPPLIED AND INSTALLED BY CUSTOMER/CONTRACTOR	IVEINIALIVO
(A1)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	
BB	12" x 24"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(P)		DISCONNECT SWITCH MOUNTED NEAR OUTDOOR UNIT TO DISCONNECT POWER SUPPLY FROM	OUTDOOR UNIT-WATER/AIR
_		INDOOR UNIT. SUPPLIED BY SIEMENS, INSTALLED BY CUSTOMER/CONTRACTOR IN ACCORDANCE WITH LOCAL CODES.	SPLIT
₩		EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(E)		ETHERNET SWITCH FOR ICS, IRS, GANTRY & PDC SUPPLIED BY SIEMENS. LOCATED INSIDE PDC CABINET.	
(FI)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING.	CARE VISION MONITOR CEILING MOUNT
(CS)(PT)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA 18" ABOVE FINISHED FLOOR IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS.
(N2)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA.	INJECTOR ELECTRONICS
(N3)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING IN SHOWN LOCATION.	CEILING MTD. INJECTOR
(RS)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	IMAGE RECONSTRUCTION CAE
₩P	3-PHASE	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
⊕ \$	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
<u>S</u>	AS REQUIRED	TWO PULL BOXES MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATIONS.	HEAT EXCHANGER CABINET-WATER/AIR SPLIT
(3)	AS REQUIRED	PULL BOX THAT IS PROVIDED ON THE OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
②	AS REQUIRED	PULL BOX MOUNTED ADJACENT TO OUTDOOR COOLING UNIT PROVIDED WITH FLEX-TITE CONDUIT FROM PULL BOX TO WATER HOSE CONNECTIONS ON OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT- WATER/AIR SPLIT
♠	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2"Ø OPENING IN FINISHED COVER. THE SURGE SUPPRESSOR MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/ CONTRACTOR.	SEE DETAIL S-101
HD1 HD2	10" x 3 1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOORLINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
1	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
2	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
3	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
4	AS REQUIRED	CONDUIT FROM "EPO" TO "PDC", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
5	AS REQUIRED	CONDUIT FROM "MP" TO "SPR" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
6	AS REQUIRED	CONDUIT FROM "MP" TO "PDC", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
7	AS REQUIRED	CONDUIT FROM "PDC" TO "WARNING LIGHT".	
8	AS REQUIRED	CONDUIT FROM "PDC" TO "DS".	
9	2-1/2"ø	CONDUIT FROM "PDC" TO "ICS/PIT".	MAX. CONDUIT LENGTH 82'-0"
10	2"ø	CONDUIT FROM "PDC" TO "IRS".	MAX. CONDUIT LENGTH 82'-0"
11)	(3) 3"ø	CONDUITS FROM "PDC" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 82'-0"
12	3"ø	CONDUIT FROM "B" TO "ICS/PIT".	MAX. CONDUIT LENGTH 82'-0"
13	1-1/2"ø	CONDUIT FROM "B" TO "IRS".	MAX. CONDUIT LENGTH 82'-0"
14)	(2) 3 " ø	CONDUITS FROM "S" TO "B1". TO CONTAIN SIEMENS COOLING WATER HOSES WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 96'-0" SEE SHEET M-101
15)	1"ø	CONDUIT, IF REQUIRED PER LOCAL CODE, FOR CONDENSATION HOSE FROM "B1" TO SELECTED DRAIN TYPE. THE MINIMUM BENDING RADIUS IS 1 3/16".	MAX. CONDUIT LENGTH 32'-9"
16)	2-1/2"ø	CONDUIT FROM "IN2" TO "IN3", VERIFY LENGTH RESTRICTIONS WITH MANUFACTURER.	
17)	2-1/2"ø	CONDUIT FROM "ICS" TO "F1".	MAX. CONDUIT LENGTH 82'-0"
18	2-1/2"ø	CONDUIT FROM "PDC" TO "F1".	MAX. CONDUIT LENGTH 68'-0"
19	AS REQUIRED	CONDUIT FROM "MP" TO "A1" (S), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
20	1-1/2"ø	CONDUIT FROM "A1" (S) TO "DC" AND "DC" TO "S1".	MAX. CONDUIT LENGTH 131'-0"
21)	1-1/2"ø	CONDUIT FROM "A1" (S) TO "B".	MAX. CONDUIT LENGTH 98'-0"
22	(2) 3"ø	CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S" TO "S2". THE MINIMUM BENDING RADIUS IS 12.5".	MAX. CONDUIT LENGTH 131'-0" SEE SHEET M-101

SIEMENS SUPPLIED CABLES				
FROM	VIA	то	DESCRIPTION	REMARKS
PDC	9	ICS/PIT	POWER CABLE; W8:330V, W12:300V, W34:GND DATA CABLE; W61:30V, W63:30V	MAXIMUM LENGTH 82'-0"
PDC	10	IRS	POWER CABLE; W7:300V, W33:GND DATA CABLE; W57:30V, W65:30V	MAXIMUM LENGTH 82'-0"
PDC	11	В	POWER CABLE; W1:600V, W2:600V, W3:600V, W4:HIGH VOLTAGE, W9:300V, W30:GND DATA CABLE; W53:30V, W54:30V, W59:30V, W74:FIBER	MAXIMUM LENGTH 82'-0"
В	12	ICS/PIT	CONTROL CABLE; W51:300V	MAXIMUM LENGTH 82'-0"
В	13	IRS	DATA CABLE; W70:FIBER, W98:30V	MAXIMUM LENGTH 82'-0"
S	14	B1	WATER HOSES	MAXIMUM LENGTH 96'-0"
B1	15	DRAIN	CONDENSATION HOSE	MAXIMUM LENGTH 32'-9"
IN2	16	IN3	INJECTOR CABLE	
ICS	17	F1	CONTROL CABLE	MAXIMUM LENGTH 82'-0"
PDC	18	F1	POWER CABLE	MAXIMUM LENGTH 68'-0"
S	A1,20,DC,20	S1	POWER CABLE AND CONTROL CABLE; W820:600V	MAXIMUM LENGTH 131'-0"
S	A1,21	В	DATA CABLE; W821:30V	MAXIMUM LENGTH 98'-0"
S	22	S2	WATER HOSES	MAXIMUM LENGTH 131'-0"

ELECTRICAL NOTES

1) COMPLIANCE: ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA-70), O.S.H.A. REGULATIONS, AS WELL AS APPLICABLE REGULATIONS OF CITY, COUNTY, STATE AND FEDERAL AGENCIES. PROVIDE MATERIALS AND EQUIPMENT THAT COMPLY TO ANSI, IEEE AND NEMA STANDARDS. WHERE APPLICABLE, PROVIDE ONLY MATERIALS AND PRODUCTS THAT ARE U.L. LISTED AND LABELED. CUSTOMER'S/CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF NECA STANDARD OF

2) QUALITY ASSURANCE: THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST OR BE DISCOVERED THAT PREVENT THE INSTALLATION OF WORK AS SHOWN, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO FABRICATION OF EQUIPMENT, OR THE PERFORMANCE OF ANY WORK THAT MAY BE AFFECTED. DO NOT ALTER DRAWINGS, DIMENSIONS, OR SPECIFICATIONS IN ANY WAY WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROGRAM MANAGER. ALL DIMENSIONS ARE FROM FINISHED SURFACES. CONDUIT AND PULL BOXES TO BE INSTALLED BY THE CUSTOMER/CONTRACTOR WITH LOCATIONS BEING FIELD VERIFIED BY SMS PROJECT MANAGER.

3) POWER SUPPLY SOURCE: POWER SUPPLIES FOR SIEMENS MEDICAL SOLUTIONS EQUIPMENT SHALL BE DEDICATED SERVICES KEPT ENTIRELY FREE AND INDEPENDENT OF ALL OTHER BUILDING WIRING AND EQUIPMENT, SUCH AS: ELEVATORS, GENERATORS, PUMPS, HVAC SYSTEMS, ETC. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CUSTOMER/UTILITY COMPANY FIELD REPRESENTATIVE.

4) WORK FURNISHED BY CUSTOMER/CONTRACTOR: WORK NOT PROVIDED BY SIEMENS MEDICAL SOLUTIONS BUT SHOWN ON DRAWINGS TO BE FURNISHED AND INSTALLED BY CUSTOMER/CONTRACTOR INCLUDES THE FOLLOWING BUT IS NOT LIMITED TO UNLESS NOTED OTHERWISE: ELECTRICAL RACEWAYS AND DUCTS, WIRING TROUGHS, PULL BOXES, CONDUITS, CIRCUIT BREAKERS, EMERGENCY OFF BUTTONS, DOOR SWITCHES, WARNING LIGHTS, WIRING, WIRING DEVICES, CONNECTORS, LIGHTING EQUIPMENT AND GROUNDING.

5) RACEWAY AND CONDUIT NOTES: RACEWAY SHALL BE ELECTRIC METALLIC TUBING (EMT) FOR RIGID CONDUIT WORK, OR WHERE SHORT OFF-SET CONNECTIONS ARE REQUIRED LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED. FIELD BENDS SHALL NOT BE LESS THAN AS SHOWN IN TABLE 346-10 OF THE NATIONAL ELECTRICAL CODE. PROVIDE A JETLINE "SUPER TRUE TAPE", OR EQUIVALENT CONDUIT MEASURING TAPE FISH LINE IN ALL RACEWAYS AND CONDUITS.

CONDUIT BODIES SHALL NOT BE USED. WHERE A CONDUIT ENTERS A BOX, FITTING, OR OTHER ENCLOSURE, AN INSULATED THROAT CONNECTOR SHALL BE PROVIDED TO PROTECT THE WIRE FROM ABRASION. CONNECTORS SHALL BE DOUBLE SET SCREW TYPE, STEEL CONCRETE TIGHT.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES OR STEAM AND HOT WATER PIPES. INSTALL RACEWAY RUNS ABOVE WATER AND STEAM PIPES PROVIDED THAT CABLE RUN DISTANCES ARE MAINTAINED. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY.

CONDUIT RUNS ARE SHOWN SCHEMATICALLY. INSTALL CONDUIT WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE CONSIDERING THE BUILDING CONSTRUCTION AND OBSTRUCTIONS, EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL MAKE CERTAIN THAT ANY CONDUIT/RACEWAY RUNS CONTAINING SIEMENS MEDICAL SYSTEMS CABLES DO NOT EXCEED THE SPECIFIED MAXIMUM DISTANCES AS SHOWN ON THE ELECTRICAL DETAILS.

PROVIDE ENCLOSED METAL RACEWAY SYSTEM (WIRE DUCT) WHERE SHOWN ON DRAWINGS WITH DIVIDERS TO SEPARATE THE DUCT (FOR POWER AND SIEMENS MEDICAL SOLUTIONS CABLING). DIVIDERS AND CROSSOVER PIECES TO BE PROVIDED AS NECESSARY. FOR UL CERTIFIED SYSTEMS, THE CABLE TO CABLE AS WELL AS THE CIRCUIT TO CIRCUIT SEPARATION REQUIREMENT WAS EVALUATED DURING THE UL SYSTEM INVESTIGATION OF THIS EQUIPMENT. ADDITIONAL SEPARATION OF THE SYSTEM CABLE ASSEMBLIES INTO SEPARATE OR PARTITIONED RACEWAYS, UNLESS OTHERWISE NOTED, IS NOT NECESSARY TO INSURE SEPARATION OF CIRCUITS, AS THEY CAN BE IN THE SAME RACEWAY. PROVIDE WIRE DUCT/RACEWAY WITH ACCESSIBLE REMOVABLE

COVERS. LOCATIONS OF OPENINGS TO BE CUT IN FIELD ARE TO BE COORDINATED WITH SIEMENS PROJECT MANAGER. ELECTRICAL PULL BOXES AND RACEWAY COVERS SHALL BE INSTALLED IN A MANNER TO ALLOW ACCESSIBILITY FOR INSTALLATION AND MAINTENANCE. IN-FLOOR TRENCH DUCT AND FLUSH FLOOR BOXES SHALL BE PROVIDED WITH FULLY GASKETED REMOVABLE COVERS.

6) WIRING: WIRING SHALL BE INSTALLED IN METAL RACEWAY, 600 VOLT CLASS, STRANDED TYPE THHN-THWN, SINGLE CONDUCTOR ANNEALED COPPER FOR A MAXIMUM OPERATING TEMPERATURE OF 75° C (165° F). SIZED AS INDICATED. THE CUSTOMER/CONTRACTOR SHÀLL LEAVE MINIMUM 10 FT. WIRE TAILS AT ALL OUTLET POINTS WITH WIRE IDENTIFICATION TAGGED AT BOTH ENDS FOR FINAL CONNECTION BY SIEMENS MEDICAL SOLUTIONS.

7) IN ADDITION TO THE CIRCUIT BREAKER LOAD CURRENT RATING, CONSIDERATION MUST ALSO BE GIVEN TO SELECTING CIRCUIT BREAKERS THAT HAVE A HIGH ENOUGH SHORT CIRCUIT CURRENT WITHSTAND RATING TO SAFELY COORDINATE WITH THE POWER SYSTEM AVAILABLE SHORT CIRCUIT CURRENT. GENERALLY, WHEN THE 480 VOLT, 3 PHASE, X-RAY EQUIPMENT IS SERVED FROM A POWER SUPPLY SYSTEM THAT IS PROVIDED WITH A 500 KVA OR SMALLER TRANSFORMER, A STANDARD 14,000 RMS AMPERE WITHSTAND RATED CIRCUIT BREAKER WILL BE ADEQUATE. HOWEVER, IF THE POWER SUPPLY SYSTEM TRANSFORMER IS LARGER THAN 500 KVA, THEN THE CIRCUIT BREAKERS HAVING A SHORT CIRCUIT WITHSTAND RATING GREATER THAN 14,000 RMS AMPERES MAY BE REQUIRED.

CONDUIT LENGTH CALCULATIONS

IF SITE SPECIFIC CONDITIONS EXCEED THE FOLLOWING ASSUMED VALUES THEN ADDITIONAL LENGTH MUST BE SUBTRACTED BY THE ELECTRICAL CONTRACTOR FROM THE MAXIMUM CONDUIT LENGTHS

J. DRAMIS

CHECKED:

HIF DUCT LOCATIONS ARE ALTERED FROM THE SHOWN LAYOUT IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO RECALCULATE THE MAXIMUM CONDUIT LENGTHS. ASSUMED VALUES USED IN CALCULATING STATED MAXIMUM

CONDUIT LENGTHS: VERTICAL DUCTS - 10'-0" FLOOR PENETRATIONS - 3'-0"

> DEFINITION AS 05/03/13

FINISHED	RO	OM HEIGHT
FOR CT GANTRY ONLY		MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING	MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

			PROJECT MANAGER: DAVID LYMAN TEL: (801) 602-8711 VMAIL: EXT: FAX: EMAIL: david.lyman@siemens.com
			VA SALT L
\triangle	06/06/13	R-101RA VERSION DATED 05/24/13 APPROVED BY CUSTOMER FOR FINALS	THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.
			ALL DIGHTS ARE RESERVED

SIEMENS EXT: LT LAKE CITY HEALTH CARE

> 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 PROJECT #:

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED →AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

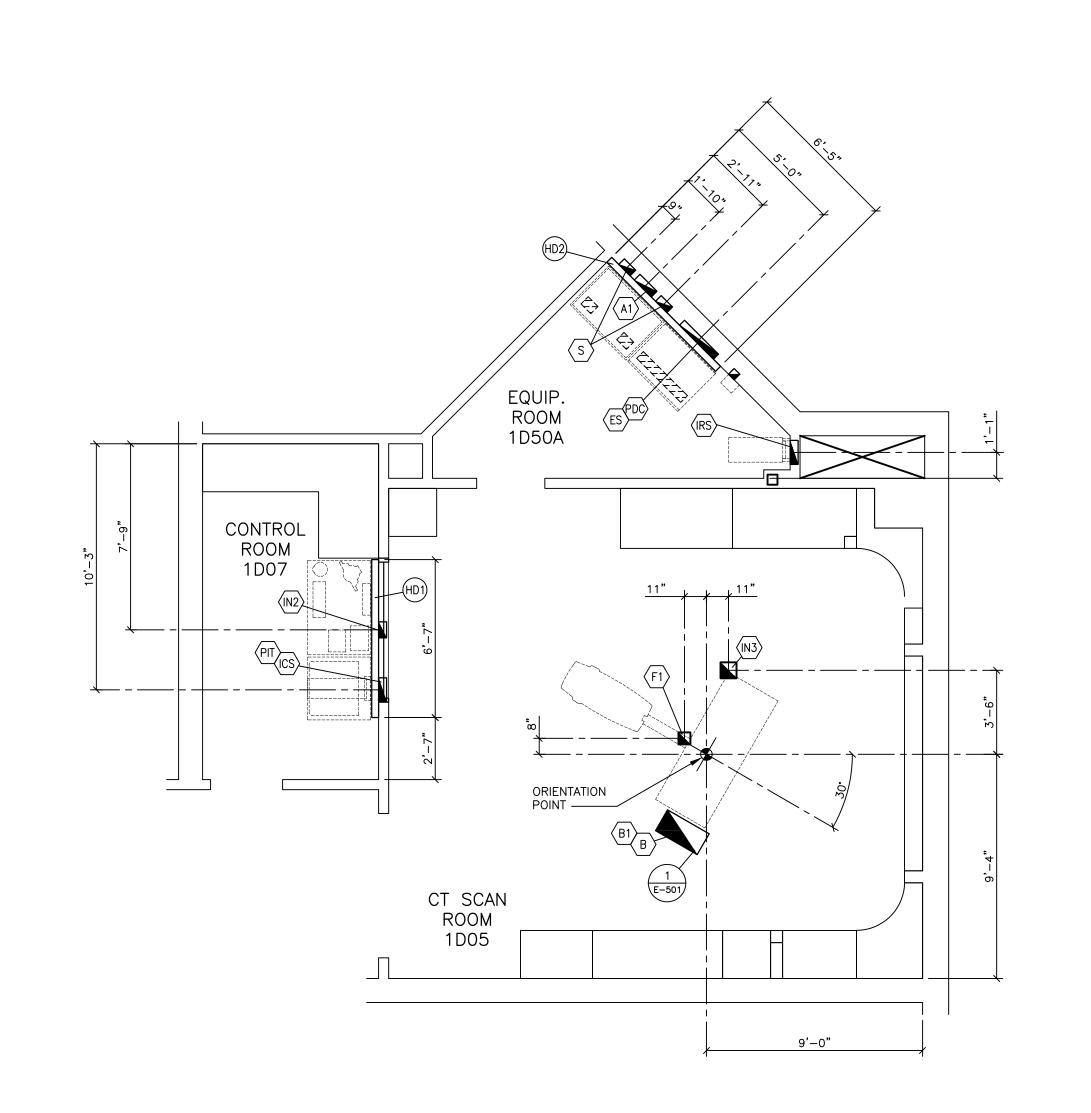
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

DESCRIPTION -ISSUE BLOCK-

ALL RIGHTS ARE RESERVED. SCALE: AS NOTED

JTION UNDER THE LAW. 06/06/13



ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"

FINISHED ROOM HEIGHT FOR CT GANTRY ONLY MINIMUM 7'-6 9/16" CAREVISION MONITOR/CEILING MOUNT MIN. 8'-7 1/2" MAX. 11'-2 5/8"

DEFINITION AS 05/03/13 PROJECT MANAGER: DAVID LYMAN TEL: (801) 602-8711 VMAIL: EXT: FAX: EMAIL: david.lyman@siemens.com SIEMENS VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128 06/06/13 R-101RA VERSION DATED 05/24/13
APPROVED BY CUSTOMER FOR FINALS

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

-ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

DATE

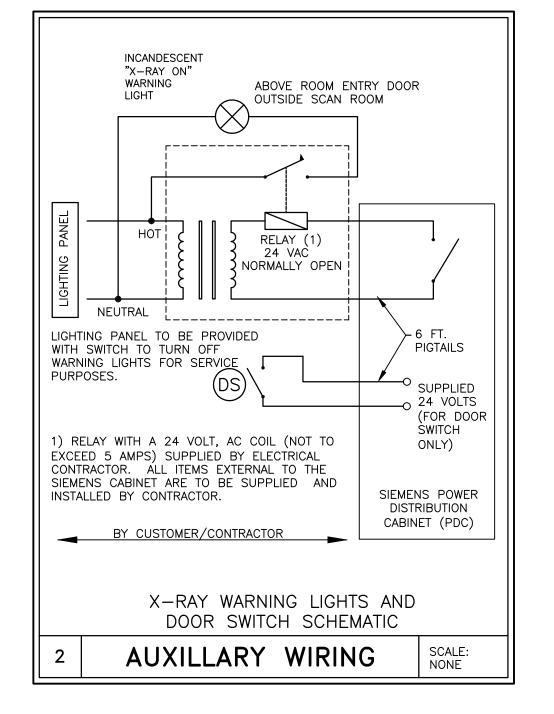
DESCRIPTION

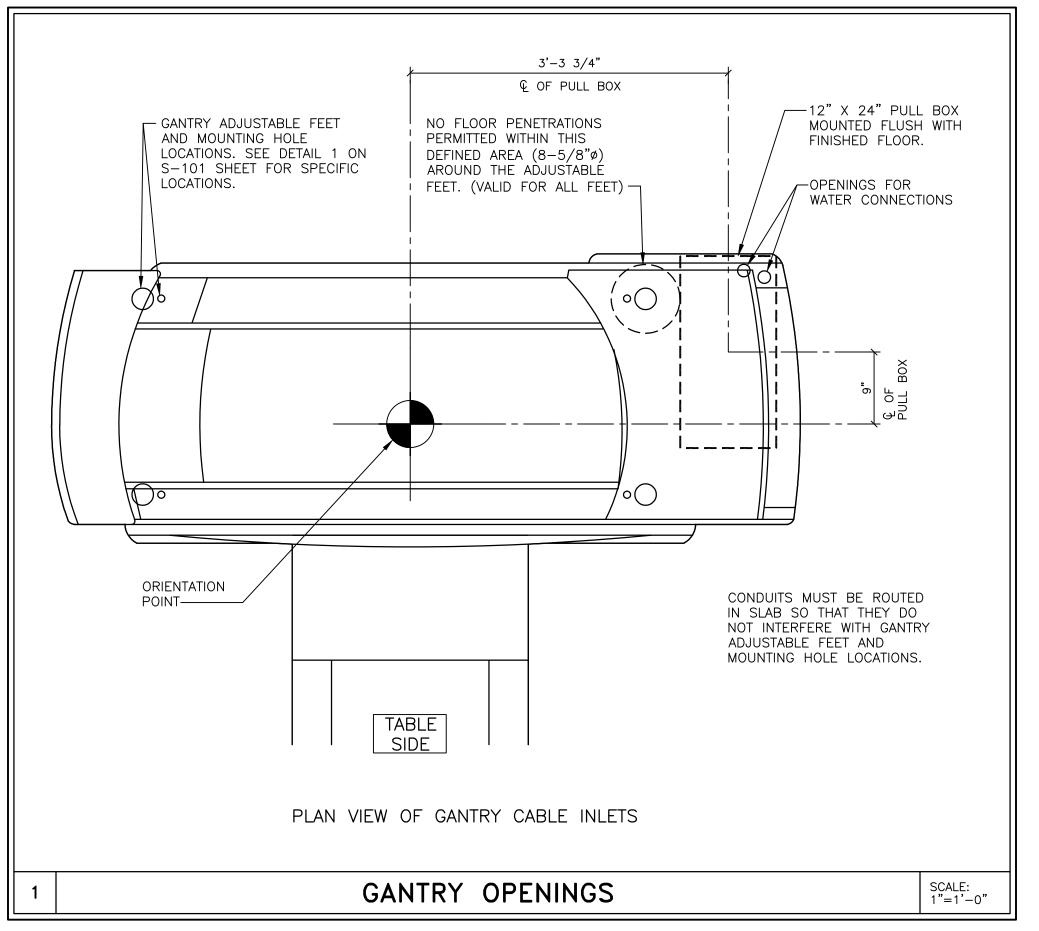
-ISSUE BLOCK-

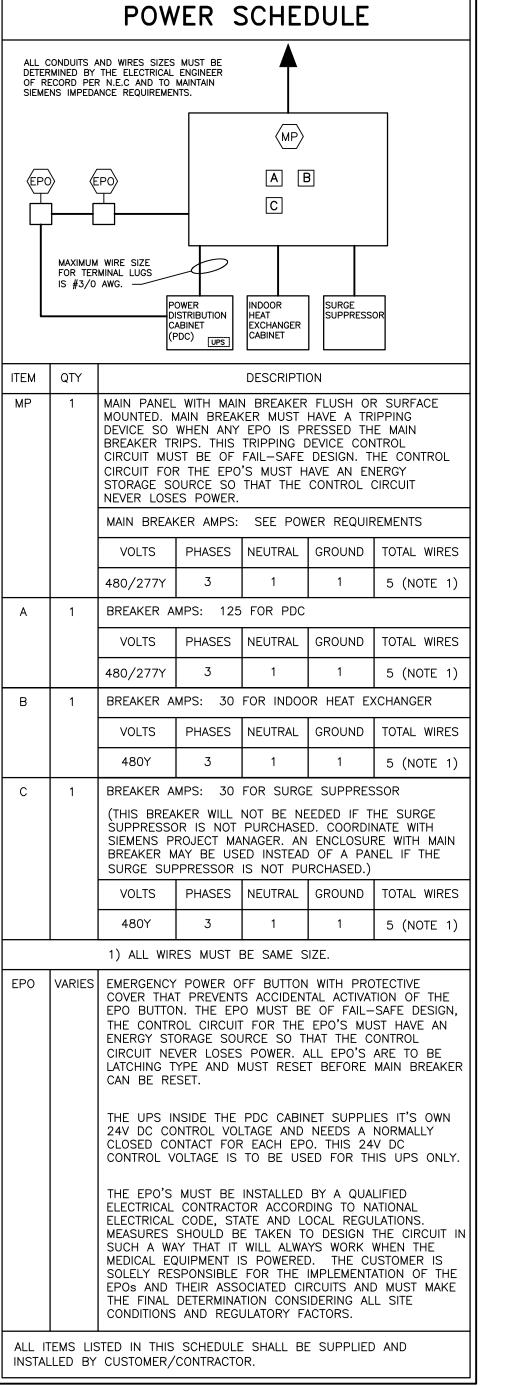
THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

PROJECT #:

130 1301723 ALL RIGHTS ARE RESERVED. SCALE: AS NOTED CHECKED: 06/06/13







POWER REQUIREMENTS

ı								
	SYSTEM	LINE VOLTAGE (VOLTS)	POWER CONSUMPTION (KVA)	INCOMING LINE IMPEDANCE (mΩ)	AUTOMATIC CIRCUIT BREAKERS (AMPS)	MAIN CIRCUIT BREAKER (AMPS)		
	SOMATOM DEFINITION AS	3ø 480±10%	SEE BELOW	≤ 125	125	125		

POWER FACTOR 0.85 OR HIGHER REQUIRED.

POWER CONSUMPTION (WITH STANDARD WATER/WATER HEAT

EXCHANGER OR AIR COOLED SYSTEM) OPERATING FOR 3 SEC - 140 kVA OPERATING FOR 100 SEC - 43 kVA SYSTEM ON (STAND-BY) - 4 kVA SYSTEM ON (COMP ON) - 2.5 kVA

GANTRY OFF (EVA ON) - 1.7 kVA POWER CONSUMPTION (WITH OPTIONAL WATER/AIR SPLIT

COOLING SYSTEM) OPERATING FOR 3 SEC - 159 kVA OPERATING FOR 100 SEC - 62 kVA SYSTEM ON (STAND-BY) - 23 kVA SYSTEM ON (COMP ON) - 2.5 kVA

GANTRY OFF (EVA ON) - 1.7 kVA

IF AN ON-SITE PRE-TRANSFORMER IS REQUIRED, IT MUST BE A MIN. OF 160 kVA. ALL STANDARD COMPONENTS AND ADD-ONS ARE SUPPLIED VIA

THE POWER DISTRIBUTION SYSTEM. DO NOT CONNECT NON-SIEMENS COMPONENTS SUCH AS LASER CAMERAS OR FILM PROCESSORS TO THE SIEMENS POWER

DISTRIBUTION SYSTEM (PDS). THE EXAMINATION ROOM SHOULD BE EQUIPPED WITH AT LEAST ONE EMERGENCY POWER OFF (PANIC) BUTTON.

TO ENSURE SATISFACTORY SYSTEM OPERATION THE PDS MUST

HAVE A DEDICATED PROTECTIVE GROUND CONDUCTOR.

GROUNDING NOTES

EQUIPMENT GROUND CONDUCTOR TO COMPLY WITH THE FOLLOWING:

1) SIZED EQUIVALENT TO THE PHASE CONDUCTORS (FULL SIZED GROUND).

2) DERIVED FROM THE ELECTRICAL SERVICE, TRANSFORMER OR MAIN DISTRIBUTION PANEL FEEDING THE SIEMENS EQUIPMENT.

3) RUN IN THE SAME CONDUIT, TROUGH OR RACEWAY AS THE PHASE CONDUCTORS.

4) CONTINUOUS, WITH NO BREAKS OR USE OF CONDUIT, CHASSIS OR EARTH AS THE SOLE GROUNDING PATH. 5) BONDED TO CHASSIS AND/OR CONDUIT IN ACCORDANCE

WITH THE NEC REQUIREMENTS. 6) MINIMIZE CONNECTIONS OR TERMINALS TO ENSURE CONTINUITY OVER THE LIFE OF THE INSTALLATION. 7) AS A NORM, THERE SHOULD NOT BE ANY CURRENT PRESENCE ON THE GROUND CONDUCTOR. BUT IT IS ACCEPTABLE TO HAVE <500mA DURING OPERATION OF THE

IMAGING EQUIPMENT. 8) THERE MAY BE SOME APPLICATIONS WHICH REQUIRE AN

ISOLATED GROUND AS PER NEC 250-96B.

LIGHTING GUIDELINES

ROOM LIGHTING IS THE RESPONSIBILITY OF THE CUSTOMER. HOWEVER, SIEMENS OFFERS THE FOLLOWING RECOMMENDATIONS, AS A GENERAL GUIDE ONLY, WHEN PLANNING FOR LIGHTING.

) OVERALL GENERAL ILLUMINATION IS NECESSARY FOR CLEAN UP AND MAINTENANCE OF EQUIPMENT.

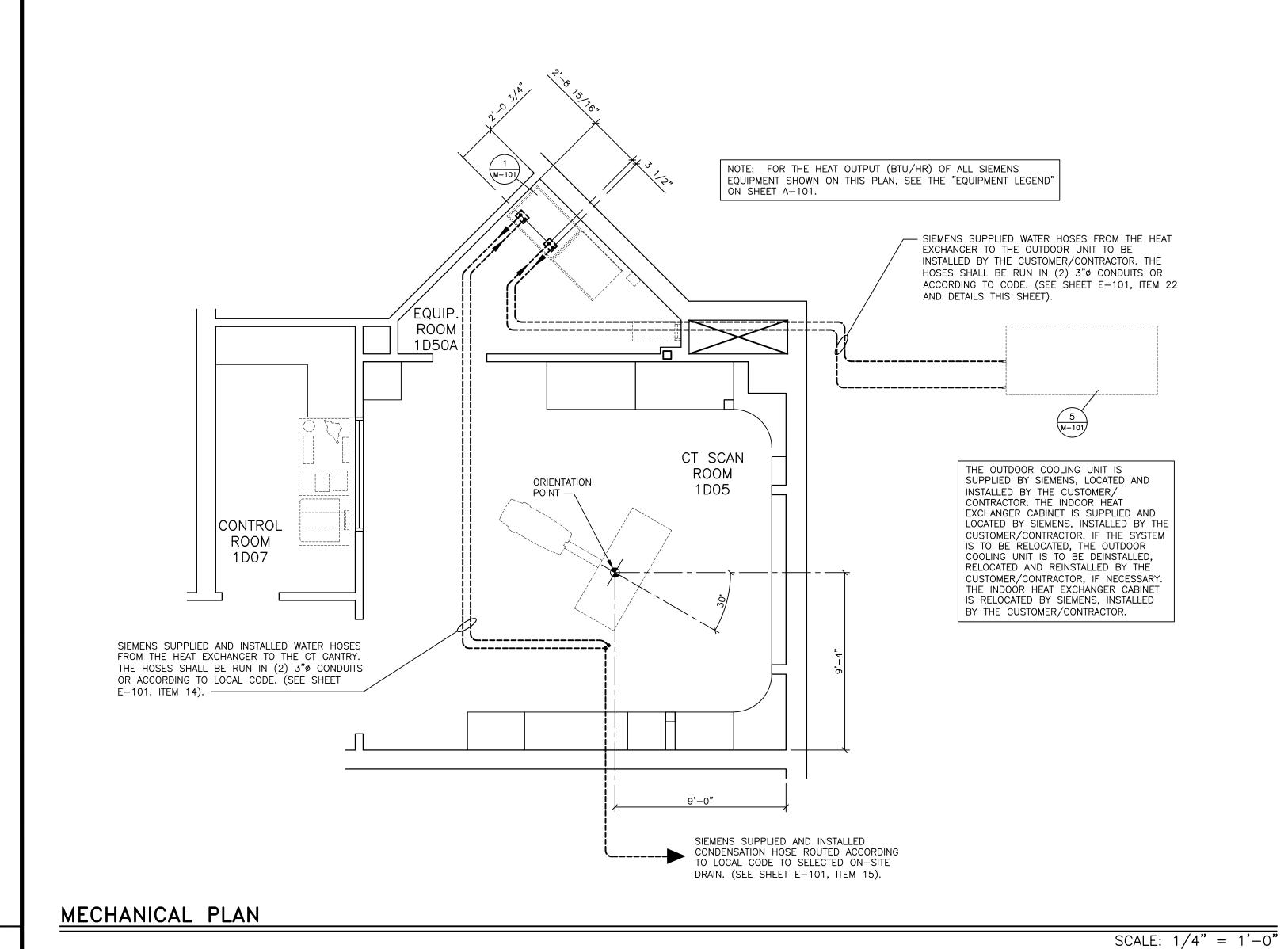
2) THE LIGHTING IN ROOMS IN WHICH DIAGNOSES ARE MADE ON VIDEO DISPLAY UNITS (MONITORS) MUST MEET THE FOLLOWING REQUIREMENTS:

- ADJUSTABLE, GLARE-FREE AND REPRODUCIBLE SETTING OF LIGHTING (I.E. DIMMER WITH SCALE)

- NO REFLECTIONS FROM WINDOWS, LAMPS AND VIEWING BOXES WHEN THE MONITORS ARE IN THEIR STANDARD OPERATING POSITION.

> DEFINITION AS 05/03/13

								//
			PROJECT MANAGEF TEL: (801) 602 VMAIL: FAX: EMAIL: david.lymar	-8711 EXT:			SIEME	INS
			VA SALT LAKE CITY HEALTH CA 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1D05 - SOMATOM DEFINITION AS 128					
\Diamond	06/06/13	R-101RA VERSION DATED 05/24/13 APPROVED BY CUSTOMER FOR FINALS	THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL PESULT IN PROSECUTION UNDER		PROJECT #: 130	1723	SHEET:	<u>\</u> 1
SYM	DATE	DESCRIPTION	ALL RIGHTS ARE RESERVED.		SHEET OF 7 9	DRAWN BY: J. DRAMIS		UΙ
-ISSUE BLOCK-			SCALE: AS NOTED	REF. #: 30164507	DATE: 06/06/13	CHECKED:]	-



7'-11 1/2"

TOP VIEW

7'-2 5/16"

7'-11 1/2"

SIDE VIEW

OUTDOOR COOLING UNIT MOUNTING DETAIL

└─ CABLE

CONNECTION BOX

WEATHER

PROTECTION

-COOLING FAN

(EXHAUST)

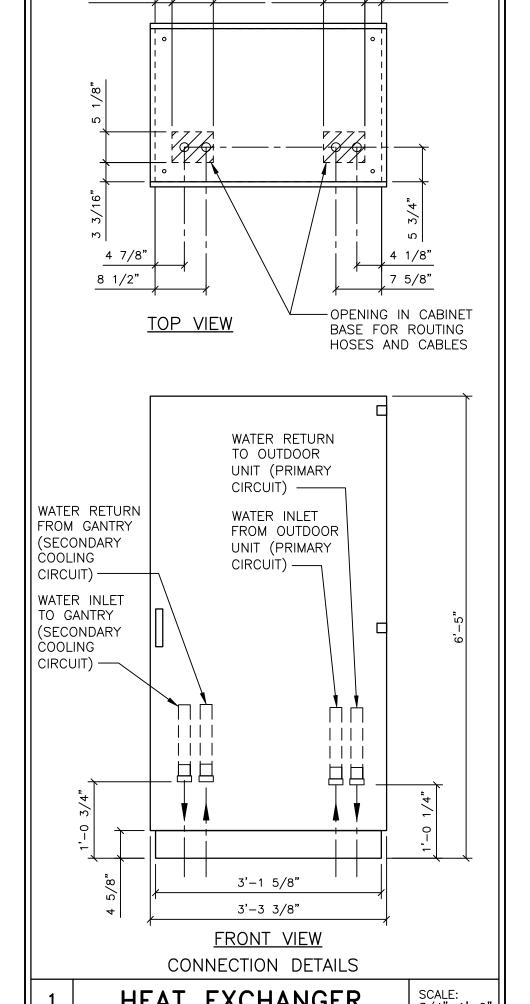
4 7/8" 4 1/8" 7 5/8" 8 1/2" OPENING IN CABINET TOP VIEW BASE FOR ROUTING HOSES AND CABLES WATER RETURN TO OUTDOOR UNIT (PRIMARY CIRCUIT) —— WATER RETURN WATER INLET FROM GANTRY FROM OUTDOOF (SECONDARY UNIT (PRIMARY COOLING CIRCUIT) —— CIRCUIT) -WATER INLET TO GANTRY (SECONDARY COOLING CIRCUIT) — | | | |3'-1 5/8" 3'-3 3/8" FRONT VIEW CONNECTION DETAILS SCALE: 3/4"=1'-0 HEAT EXCHANGER

ENVIRONMENTAL REQUIREMENTS TEMPERATURE (°F) 0 10 20 30 40 50 60 707580 90 100 % RELATIVE HUMIDITY FEMPERATURE, HUMIDITY, DUST, AIR **CONTAMINATION:** REFER TO THE CLIMATOGRAM ABOVE FOR THE PERMITTED CLIMATE RANGE. THE MAXIMUM TEMPERATURE GRADIENT IS 6 K/HR.

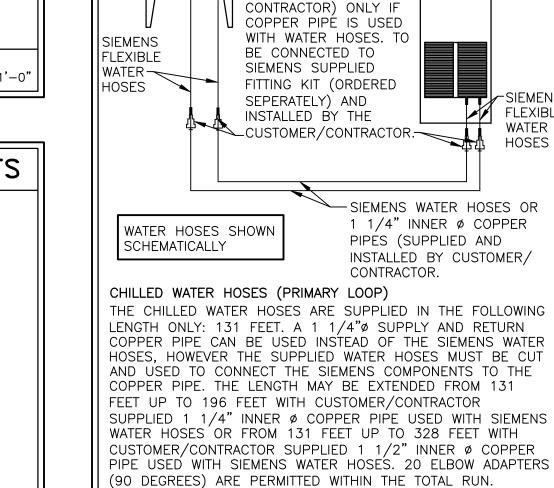
THE ENVIRONMENTAL REQUIREMENTS FOR THE OPERATOR AND THE SYSTEM IS 64 TO 82 °F WITH A RELATIVE HUMIDITY OF 20-75% AND A BAROMETRIC PRESSURE OF 10.2 TO 15.4 PSI. EXTERIOR AIR VENTS SHOULD BE EQUIPPED WITH A FILTRATION SYSTEM OF THE FILTER CLASS MERV 8 TO FILTER DUST

PARTICLES >10 um. THE ROOM AIR SHOULD BE PROTECTED AGAINST CONTAMINATION BY HYDROGEN SULPHIDE, EVEN IN SMALL AMOUNTS. IF A DANGER OF SUCH CONTAMINATION EXISTS, CORRECTIVE ACTIONS HAVE TO BE TAKEN. E.G., EXTRACTOR FANS, SIPHON, MODIFICATION OF VENTILATION INTAKE, ETC.

FINISHED ROOM HEIGHT FOR CT GANTRY ONLY MINIMUM 7'-6 9/16" CAREVISION MONITOR/CEILING MOUNT MIN. 8'-7 1/2" MAX. 11'-2 5/8"



6 7/8" 6 7/8"



SIEMENS

(FRONT)

SCHEMATIC.

ADDED TO THIS MIXTURE.

SIEMENS OUTDOOR

UNIT (FRONT)

OUTDOOR UNIT

SIEMENS HEAT

THE WATER-AIR SPLIT COOLING SYSTEM IS DELIVERED AS A

OUTDOOR COOLING UNIT, INDOOR HEAT EXCHANGER CABINET,

MIXTURE (WATER-GLYCOL), CONNECTION KIT AND CONNECTION

THE COOLING CIRCUIT BETWEEN THE OUTDOOR UNIT AND THE

INDOOR UNIT IS THE PRIMARY COOLING CIRCUIT. THE COOLING

CIRCUIT BETWEEN THE GANTRY AND THE INDOOR COOLING UNIT

IS THE SECONDARY COOLING CIRCUIT. THE PRIMARY CIRCUIT IS

PRESSURE MUST BE SET TO 29 PSI AFTER FILLING FOR THE

PRIMARY CIRCUIT AND 22 PSI FOR THE SECONDARY CIRCUIT

THE PUMP IN THE PRIMARY COOLING CIRCUIT GENERATES AN

OPERATING PRESSURE OF 29-73 PSI AT THE PUMP OUTLET.

OPERATING PRESSURE OF 58-73 PSI AT THE PUMP OUTLET.

COOLING CIRCUIT IS APPROX. 13.2 GALLONS, NOT INCLUDING

THE WATER VOLUME IN THE PRIMARY COOLING CIRCUIT IS

TECHNICIAN WHO WILL START THE SYSTEM. THE PERMITTED

MIXING RATIO IS 40:60 (GLYCOL:WATER) FOR TEMPERATURE

THE PUMP IN THE SECONDARY COOLING CIRCUIT GENERATES AN

APPROX. 23.8 GALLONS. THE WATER VOLUME IN THE SECONDARY

ANY HOSE EXTENSIONS. ANTI-FREEZE WILL BE UTILIZED BY THE

RANGE -22° TO 122°. 26.4 GALLONS OF ANTI-FREEZE MIXTURE

(WATER-GLYCOL) IS INCLUDED IN DELIVERY. WATER CANNOT BE

A 3/4" HOSE BIB AND A WATER DRAIN (EX. SINK) MUST BE

AVAÍLABLE IN THE EQUIPMENT ROOM OR IN THE SCAN ROOM

COOLING DIAGRAM

(1 1/4" MALE NPT

BY CUSTOMER/

NEAR THE HEAT EXCHANGER FOR FILLING THE COOLING CIRCUITS

SUPPLIED AND INSTALLED (FRONT)

TO BE FILLED BY THE CUSTOMER/CONTRACTOR. THE STATIC FILL

DELIVERY OF THE SYSTEM BY THE CUSTOMER/CONTRACTOR. THE

PRE-INSTALLATION KIT. IT MUST BE INSTALLED PRIOR TO

FOLLOWING IS INCLUDED IN THE PRE-INSTALLATION KIT:

HOSES AND SYSTEM CABLES, 26.4 GALLONS ANTI-FREEZE

EXCHANGER -

INDOOR UNIT

(FRONT)

SIEMENS GANTRY

WATER HOSES SHOWN

NONE

SIEMENS HEAT

SIEMENS

WATER

EXCHANGER -

INDOOR UNIT

SCHEMATICALLY

(BACK SIDE)

MATCH THE SELECTED PIPE SIZE. CUSTOMER/CONTRACTOR TO INSULATE WITH 1/2" ARMAFLEX INSULATION, INCLUDING FLEX IF THE SIEMENS WATER HOSES ARE EXTENDED (>131 FEET), THE LINE VOLTAGE/CONTROL CABLE THAT RUNS FROM THE HEAT EXCHANGER CABINET TO THE OUTDOOR UNIT MUST ALSO BE EXTENDED. THESE EXTENDED CABLES ARE AVAILABLE THROUGH SIEMENS.

CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL FITTINGS TO

ADDITIONAL ANTI-FREEZE MUST ALSO BE SUPPLIED BY THE CUSTOMER/CONTRACTOR FOR HOSE EXTENSION. PRIMARY CIRCUIT

-13° TO 136°

-22° TO 122°

SCALE:

NONE

ROJECT MANAGER: DAVID LYMAN EL: (801) 602-8711

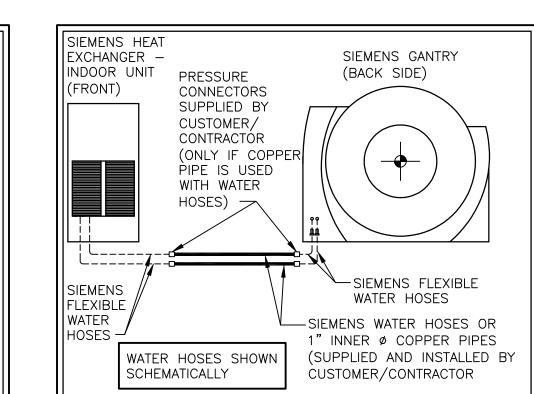
MAIL: david.lvman@siemens.com

0-100%

102,364

WATER TEMPERATURE RANGE: AIR INTAKE TEMPERATURE RANGE: RELATIVE HUMIDITY: BTU/HR TO AIR (EXHAUST)

PRIMARY CIRCUIT



HEAT EXCHANGER

DUE TO THE HIGH NOISE (<60 dB), IT IS RECOMMENDED TO INSTALL THE HEAT EXCHANGER IN A SEPARATE ROOM. THE HEAT EXCHANGER MAY BE INSTALLED TO THE LEFT OR RIGHT OF THE PDC OR INDEPENDENT OF THE PDC CABINET.

CHILLED WATER HOSES (SECONDARY COOLING CIRCUIT) THE CHILLED WATER HOSES HAVE TO BE ORDERED SEPARATELY AND WILL BE SUPPLIED IN THE FOLLOWING THREE LENGTHS ONLY: 31 FEET, 64 FEET AND 96 FEET. A 1"Ø SUPPLY AND RETURN COPPER PIPE CAN BE USED INSTEAD OF THE SIEMENS WATER HOSES, HOWEVER THE SUPPLIED WATER HOSES MUST BE CUT AND USED TO CONNECT THE SIEMENS COMPONENTS TO THE COPPER PIPE. THE LENGTH MAY BE EXTENDED FROM 96 FEET UP TO 164 FEET WITH CUSTOMER/CONTRACTOR SUPPLIED INNER Ø COPPER PIPE USED WITH SIEMENS WATER HOSES OR FROM 96 FEET UP TO 229 FEET WITH CUSTOMER/ CONTRACTOR SUPPLIED 1 1/4" INNER Ø COPPER PIPE USED

WITH SIEMENS WATER HOSES. 20 ELBOW ADAPTERS (90 DEGREES) ARE PERMITTED WITHIN THE TOTAL RUN. CUSTOMER/CONTRACTOR TO SUPPLY AND INSTALL FITTINGS TO MATCH THE SELECTED PIPE SIZE. CUSTOMER/CONTRACTOR TO INSULATE WITH 1/2" ARMAFLEX INSULATION, INCLUDING FLEX HOSES. THE OUTER DIAMETER OF THE WATER HOSES IS 1-3/8". INSULATED WATER HOSES ARE AVAILABLE THROUGH SIEMENS. IF THE SIEMENS WATER HOSES ARE EXTENDED (>96 FEET), THE

DATA CABLE THAT RUNS FROM THE HEAT EXCHANGER CABINET TO THE GANTRY MUST ALSO BE EXTENDED. THESE EXTENDED CABLES ARE AVAILABLE THROUGH SIEMENS.

SECONDARY CIRCUIT WATER TEMPERATURE NOMINAL FLOW RATE:

660 GALLONS/HR (WITH 98 FT. HOSE)

NONE

DEFINITION AS 05/03/13

SIEMENS

SECONDARY CIRCUIT

TECHNICAL DATA				
TEMPERATURE RANGE OF WATER	-13°F TO 136°F MAXIMUM (PRIMARY COOLING CIRCUIT			
	57°F (SECONDARY COOLING CIRCUIT)			
AMBIENT AIR TEMPERATURE RANGE (AIR INTAKE)	-22°F TO 122°F MAXIMUM			
FILTRATION	200 MICRONS			
BTU/HR TO AIR (EXHAUST)	102,364			

||WATER QUALITY THE WATER MUST BE OF DRINKABLE QUALITY. IF THE WATER IS OF LESSER QUALITY A FILTER WITH A MESH OF 200 MICRONS IS REQUIRED IN THE PRIMARY INLET SUPPLIED BY THE CUSTOMER/ CONTRACTOR.

ANTI-FREEZE

ANTI-FREEZE MAY BE ADDED TO THE PRIMARY COOLING CIRCUIT ONLY, BY THE TECHNICIAN WHO WILL START THE SYSTEM. THE PERMITTED MIXING RATIO IS 40:60 (GLYCOL:WATER) FOR TEMPERATURE RANGE -22° TO 122°F. 26.4 GALLONS OF ANTI-FREEZE MIXTURE (WATER-GLYCOL) IS INCLUDED IN DELIVERY. WATER CANNOT BE ADDED TO THIS MIXTURE.

DATE -ISSUE BLOCK-

ALL RIGHTS ARE RESERVED. DESCRIPTION SCALE: AS NOTED

VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT PROJECT #: SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

REF. #: 30164507

CT SUITE 1D05 - SOMATOM DEFINITION AS 128 1301723 CHECKED: 06/06/13

-THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

WATER INLET

& RETURN -

3'-11 1/4"

MIN. SERVICE CLEARANCE

WATER INLET

& RETURN —

THE OUTDOOR UNIT MUST BE LOCATED AND INSTALLED BY

PRE-INSTALLATION KIT THAT MUST BE INSTALLED PRIOR TO

POSSIBLE. THE MOUNTING SURFACE MUST BE LEVEL. IT IS

RECOMMENDED THAT THE UNIT BE PROTECTED AGAINST

THE OUTDOOR UNIT MUST ALWAYS BE BOLTED TO THE

CUSTOMER/CONTRACTOR. MOUNTING TO A WALL IS ALSO

SUPPORT MUST BE DESIGNED, SUPPLIED AND INSTALLED

INTAKE

3'-4 13/16"

3'-7 5/16"

FRONT VIEW

- WATER INLET

& RETURN

2'-3 9/16"

MIN. SERVICE

CLEARANCE

POSSIBLE. MATERIALS FOR MOUNTING AND STRUCTURAL

FLOOR THROUGH THE DRILL HOLES IN THE FRAME.

MATERIALS FOR BOLTING MUST BE SUPPLIED BY THE

THE CUSTOMER/CONTRACTOR. THIS UNIT IS PART OF A

THE DELIVERY OF THE SYSTEM. IT MAY BE LOCATED

OUTSIDE ON THE ROOF OR GROUND, OR IN AN AIR CONDITIONED ROOM IF AN OUTSIDE INSTALLATION IS NOT

RAIN, SNOW, ETC.

BY THE CUSTOMER/CONTRACTOR.

- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ON-SITE

- ON-SITE

SUPPORT

WEATHER

PROTECTION

(RECOMMENDED)

NOTE: SPACE FOR

BE MAINTAINED

OUTDOOR

COOLING

UNIT ---

SERVICE MUST ALSO

WALL MOUNTING - NO SCALE

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

R-101RA VERSION DATED 05/24 APPROVED BY CUSTOMER FOR FIN

A WATER DRAIN IS REQUIRED TO BE SUPPLIED AND INSTALLED BY THE CUSTOMER/CONTRACTOR TO DRAIN CONDENSED WATER FROM THE GANTRY. THE DRAIN MUST BE WITHIN 32'-9" OF THE GANTRY AND CANNOT EXCEED 9'-10" ABOVE THE FINISHED FLOOR. BELOW ARE SOME EXAMPLES OF POSSIBLE WATER DRAINS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHICH DRAIN TYPE TO USE AND FOR SPECIFYING, SUPPLYING AND INSTALLING THE PLUMBING FIXTURES NECESSARY TO CONNECT THE SIEMENS WATER HOSE TO THE SELECTED DRAIN. THE MAX. FLOW RATE OF THE CONDENSED WATER IS 0.53 GALLONS/HR AT 75% RELATIVE HUMIDITY. SINK DRAIN GANTRY (BACK SIDE) -WATER DRAIN HOSE OUTLET -SIEMENS CONDENSATION WATER EX. CABLE / HOSE (LENGTH: 32'-9", OUTSIDE DIA. 3/8"). MAX. BENDING RADIUS 1 3/16". FLOOR DRAIN - MIN. 4" FLOOR DRAIN AS REQUIRED PER LOCAL CODE. PROVIDE SURFACE MOUNTED PULL BOX OR SURFACE DUCT AS REQUIRED. GANTRY (TOP VIEW) CONDENSATION WATER DRAIN DEFINITION AS 05/03/13 PROJECT MANAGER: DAVID LYMAN TEL: (801) 602-8711 **SIEMENS** VA SALT LAKE CITY HEALTH CARE
500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002
CT SUITE 1D05 - SOMATOM DEFINITION AS 128 THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

PROJECT #:

130 1301723 06/06/13 R-101RA VERSION DATED 05/24/13
APPROVED BY CUSTOMER FOR FINALS ALL RIGHTS ARE RESERVED. -ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES. - THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED - IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DATE DESCRIPTION AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.

THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED. DOCUMENTS FOR REFERENCE. THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION SCALE: AS NOTED REF. #: 30164507 CHECKED: -ISSUE BLOCK-06/06/13 PHYSICIST TO SPECIFY RADIATION PROTECTION.